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**Environmental Monitoring  
Reporting Form**

NC DENR

Division of Waste Management - Solid Waste

**Notice:** This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

**Instructions:**

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NC DENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

**Solid Waste Monitoring Data Submittal Information**

Name of entity submitting data (laboratory, consultant, facility owner):

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Ross Klingman, P.G.

Phone: 704-344-1450

E-mail: Buxton Environmental, Inc.

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Gaston County - Closed Cramerton Landfill	Cramerton Road Gaston County	3601	.0500	November 17, 2010

**Environmental Status: (Check all that apply)**

Initial/Background Monitoring     Detection Monitoring     Assessment Monitoring     Corrective Action

**Type of data submitted: (Check all that apply)**

Groundwater monitoring data from monitoring wells  
 Groundwater monitoring data from private water supply wells  
 Leachate monitoring data  
 Surface water monitoring data

Methane gas monitoring data  
 Corrective action data (specify) \_\_\_\_\_  
 Other(specify) \_\_\_\_\_

**Notification attached?**

- No. No groundwater or surface water standards were exceeded.  
 Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.  
 Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

**Certification**

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Ross Klingman, P.G.

President

704-344-1450

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

1/24/11

Affix NC Licensed/ Professional Geologist Seal

Buxton Environmental, Inc. 1101 South Blvd., Suite 101, Charlotte, NC 28203

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009



**SECOND SEMI-ANNUAL 2010**  
**GROUNDWATER AND SURFACE WATER MONITORING EVENT**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

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***SECOND SEMI-ANNUAL 2010***  
***GROUNDWATER AND SURFACE WATER MONITORING EVENT***  
***GASTON COUNTY - CLOSED CRAMERTON LANDFILL***  
***GASTON COUNTY, NORTH CAROLINA***

***1.0 INTRODUCTION***

Buxton Environmental, Inc. respectfully submits the methods and results of the second semi-annual 2010 groundwater and surface water monitoring activities conducted at the Gaston County Closed Cramerton Landfill located in Gaston County, North Carolina. The purpose for conducting the assessment was to monitor groundwater, surface water and hydrogeologic conditions at the subject site. A site location map and site layout map are provided in Figures 1 and 2, respectively.

The monitoring activities were conducted in general accordance with the North Carolina Department of Environment and Natural Resources, Division of Waste Management-Solid Waste Section (NCDWM) rules, NCDWM memorandums dated October 27, 2006, February 23, 2007 and October 16, 2007 concerning changes to laboratory detection limits and reporting requirements, and the NCDWM guidelines dated April 2008 for groundwater and surface water sampling. In addition, the North Carolina Ground Water Protection Standards (NCGPS's) in this report have been updated to reflect the new North Carolina Groundwater Quality Standards (NCGQS's) (Title 15A NCAC Subchapter 2L), which went into effect on January 1, 2010. A summary of background information, and the methods, results, conclusions and recommendations of this investigation are outlined below.

## **2.0 BACKGROUND INFORMATION**

Based on review of aerial photographs and discussions with Gaston County personnel, the subject facility operated from approximately 1966 until it closed in 1984. The subject property consists of approximately 44 acres and contains a Colonial Pipeline (petroleum) easement across the central portion of the site. Two landfill areas, one located northwest of the pipeline and one located southeast of the pipeline, were filled during operation.

To comply with NCDWM guidelines, semi-annual groundwater monitoring was initiated in April 1997 at eight shallow monitor wells MW-1 through MW-8. The groundwater samples have been analyzed for Appendix I volatile organic compounds (VOC's) and RCRA metals. Groundwater samples collected at the site during these activities indicated several VOC's and metals above the NCGPS's.

Due to the presence of target constituents above the NCGPS's, the NCDWM requested that additional assessment be conducted to determine the extent of affected groundwater and the existence of surrounding water supply wells. According to a March 22, 2001 *Site Assessment Activities for Cramerton Closed Landfill* report prepared by Resolve Environmental Services, P.A., two deep monitor wells MW-2D and MW-6D and one shallow monitor well MW-7A were installed at the site. The three wells were installed immediately adjacent to monitor wells MW-2, MW-6 and MW-7, respectively. Groundwater sample MW-2D indicated the presence of 68 micrograms per liter (ug/l) lead, which was above the NCGPS. Groundwater sample MW-6D indicated the presence of 20 ug/l lead and 9 ug/l benzene, which were above the NCGPS's. Groundwater sample MW-7A indicated the presence of 22 ug/l lead and 6 ug/l 1,2-dichloroethane, which were above the NCGPS's. During the assessment, 34 water supply wells were identified within a 0.5 mile radius of the former landfill. According to the report, these water supply wells were either located upgradient of the landfill or were separated by a shallow groundwater divide.

In response to the March 2001 report, the NCDWM requested in a November 8, 2001 letter that additional assessment activities be conducted in the area of monitor well MW-6D and MW-7A to determine the extent of affected groundwater.

Gaston County recently purchased 2.44 acres of property on the eastern corner of the site located immediately adjacent to monitor well MW-7A, to serve as a buffer for affected groundwater detected at the site.

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### **3.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES**

On November 17, 2010, Buxton Environmental, Inc. conducted the second semi-annual 2010 groundwater and surface water monitoring event at the subject site. Groundwater monitoring activities were conducted at eight shallow monitor wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7A and MW-8, and two deep monitor wells MW-2D and MW-6D. Monitor well MW-5 was dry during the sampling event and was unable to be sampled. Surface water samples Upstream and Downstream were also collected during these activities.

Prior to conducting the sampling activities, groundwater levels were obtained from each well with a depth-to-water electrode to the nearest 0.01 foot. Following the gauging activities, each well was purged of three well bore volumes of water with a disposable Teflon bailer attached to new nylon rope. Purge water was poured on the ground surface at respective well heads. Field parameters including pH, conductivity and temperature were collected following purging at each well and at each surface water sample location. Groundwater gauging and field parameter data are provided in Tables 1 and 2, respectively.

The groundwater and surface water samples were analyzed for Appendix I VOC's by EPA Method 8260B, and 8 RCRA metals by EPA Methods 6010B and 7470A. For quality control purposes, one trip blank was analyzed for Appendix I VOC's. The trip blank was prepared by the laboratory. The laboratory analyses were conducted by Shealy Environmental Services, Inc. in West Columbia, South Carolina. The water samples were collected in general accordance with accepted protocol, including chain-of-custody documentation.

The monitor wells were locked and appeared to be in good condition during the sampling event.

#### **4.0 GROUNDWATER FLOW DIRECTION**

Based on groundwater levels obtained on November 17, 2010, shallow groundwater flow at the site is to the south, southwest, northwest and southeast. A shallow groundwater flow direction map is provided in Figure 3.

A horizontal hydraulic gradient of 0.04 feet per feet (ft/ft) was observed between shallow monitor wells MW-1 and MW-3. An upward hydraulic gradient of 0.02 feet/feet was observed at nested monitor wells MW-2 and MW-2D, and a downward hydraulic gradient of 0.07 feet/feet was observed at nested monitor wells MW-6 and MW-6D. Upward hydraulic gradients are generally associated with groundwater discharge zones and downward hydraulic gradients are generally associated with groundwater recharge zones.

## **5.0 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS**

The groundwater and surface water analytical results for the second semi-annual 2010 event are presented in Tables 3 and 4, respectively, and are illustrated in Figure 4. Laboratory data sheets are presented in Appendix A. Historical groundwater analytical results are presented in Appendix B.

Groundwater samples collected at monitor wells MW-4, MW-6, MW-6D and MW-7A indicated the presence of target constituents above the NCGPS's, which are summarized below.

Groundwater sample MW-4 indicated the presence of 8.8 ug/l 1,4-dichlorobenzene.

Groundwater sample MW-6 indicated the presence of 7 ug/l benzene, 27 ug/l 1,4-dichlorobenzene, 2 ug/l 1,2-dichloroethane, 5.3 ug/l vinyl chloride and 1,200 ug/l barium.

Groundwater sample MW-6D indicated the presence of 6.5 ug/l benzene, 13 ug/l 1,4-dichlorobenzene, 16 ug/l 1,1-dichloroethane, 75 ug/l cis-1,2-dichloroethene, 1.1 ug/l 1,2-dichloropropane and 7.1 ug/l vinyl chloride. Groundwater sample MW-7A indicated the presence of 7.9 ug/l benzene and 17 ug/l 1,4-dichlorobenzene. The remaining groundwater samples did not indicate target constituents above the NCGPS's.

The Upstream and Downstream surface water samples did not indicate target constituents above the NCGPS's.

The trip blank did not indicate the presence of VOC's above method detection limits.

## **6.0 CONCLUSIONS**

On November 17, 2010, Buxton Environmental, Inc. conducted the second semi-annual 2010 groundwater monitoring activities at the Closed Cramerton Landfill located in Gaston County, North Carolina. A summary of the findings of this investigation is provided below.

- Shallow groundwater flow at the site is to the south, southwest, northwest and southeast.
- Groundwater samples collected at MW-4, MW-6, MW-6D and MW-7A indicated target constituents above the NCGPS's.
- The Upstream and Downstream surface water samples did not indicate target constituents above the NCGPS's.

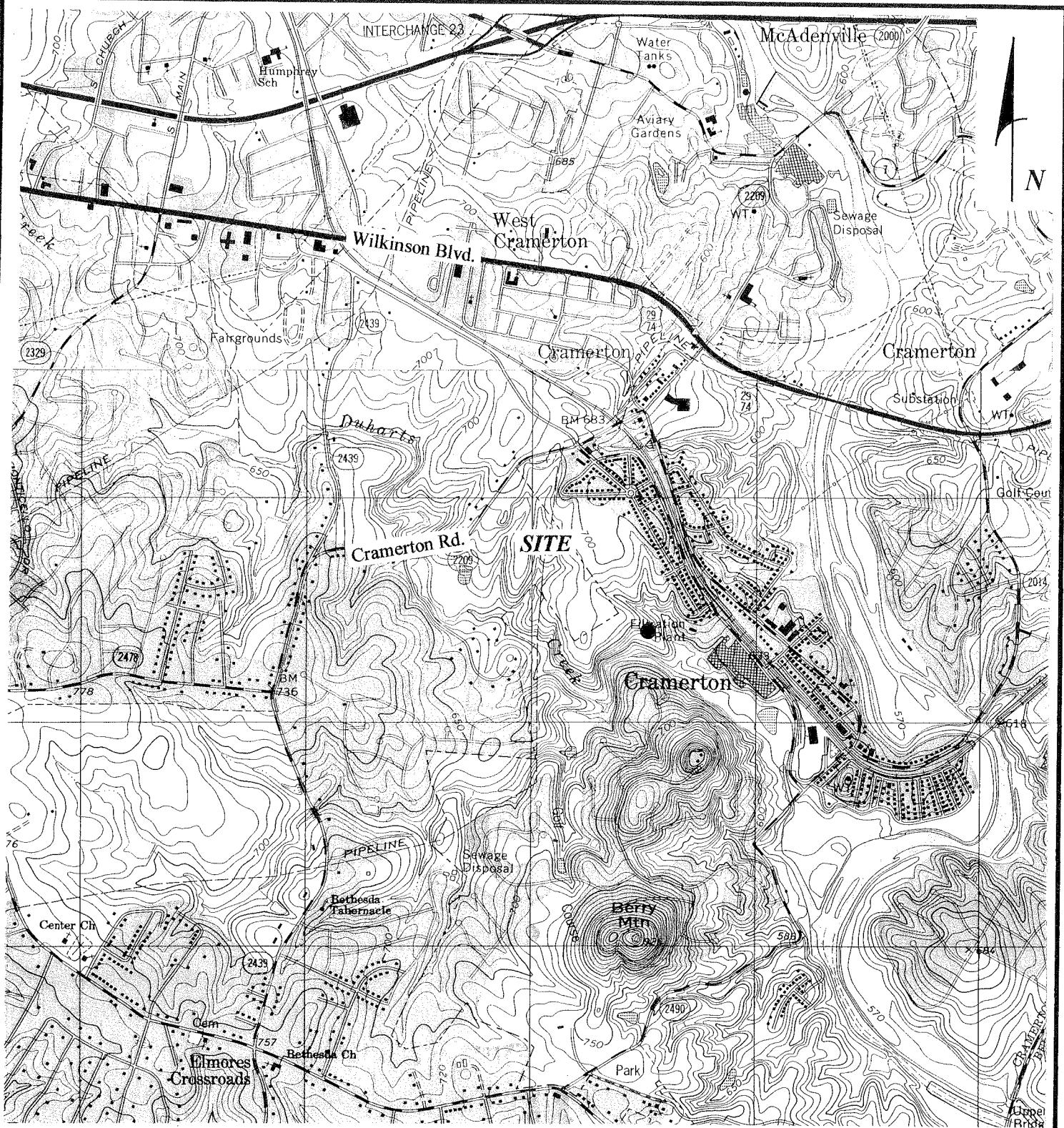
## **7.0 RECOMMENDATIONS**

Based on the findings of this assessment, Buxton Environmental, Inc. makes the following recommendations.

- Semi-annual groundwater monitoring should continue to be conducted at the Closed Cramerton Landfill. The next sampling event is anticipated to be conducted in May 2011.
- A copy of this report should be forwarded to the NCDWM for their review.

rk:reports:cramertonrpt..1110

***FIGURES***



Scale

0 Feet 2,000

Source: United States Geological Survey, 1993 Mount Holly,  
1997 Belmont, North and South Carolina Quadrangles

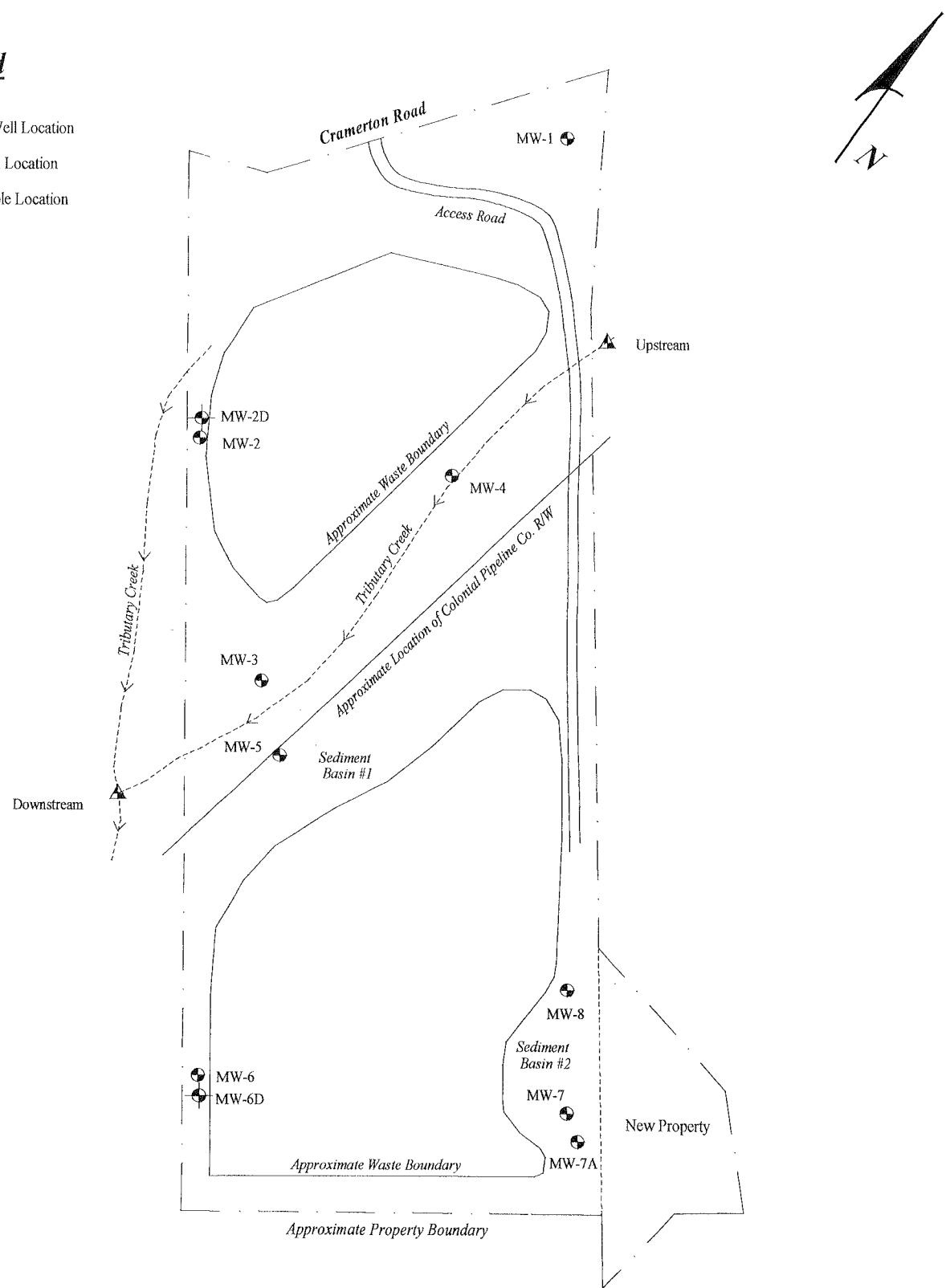
Gaston County  
Closed Cramerton Landfill  
Gaston County, North Carolina

Buxton Environmental, Inc.

Figure 1.  
Site Location Map

## Legend

- Shallow Monitor Well Location
- Deep Monitor Well Location
- ▲ Surfacewater Sample Location



Scale  
0 Feet 300

Source: Resolve Environmental Services,  
P.A. Site Layout Map and Survey Plat  
by Robinson & Sawyer, Inc.

Gaston County  
Closed Cramerton Landfill  
Gaston County, North Carolina

Buxton Environmental, Inc.

Figure 2.  
Site Layout Map

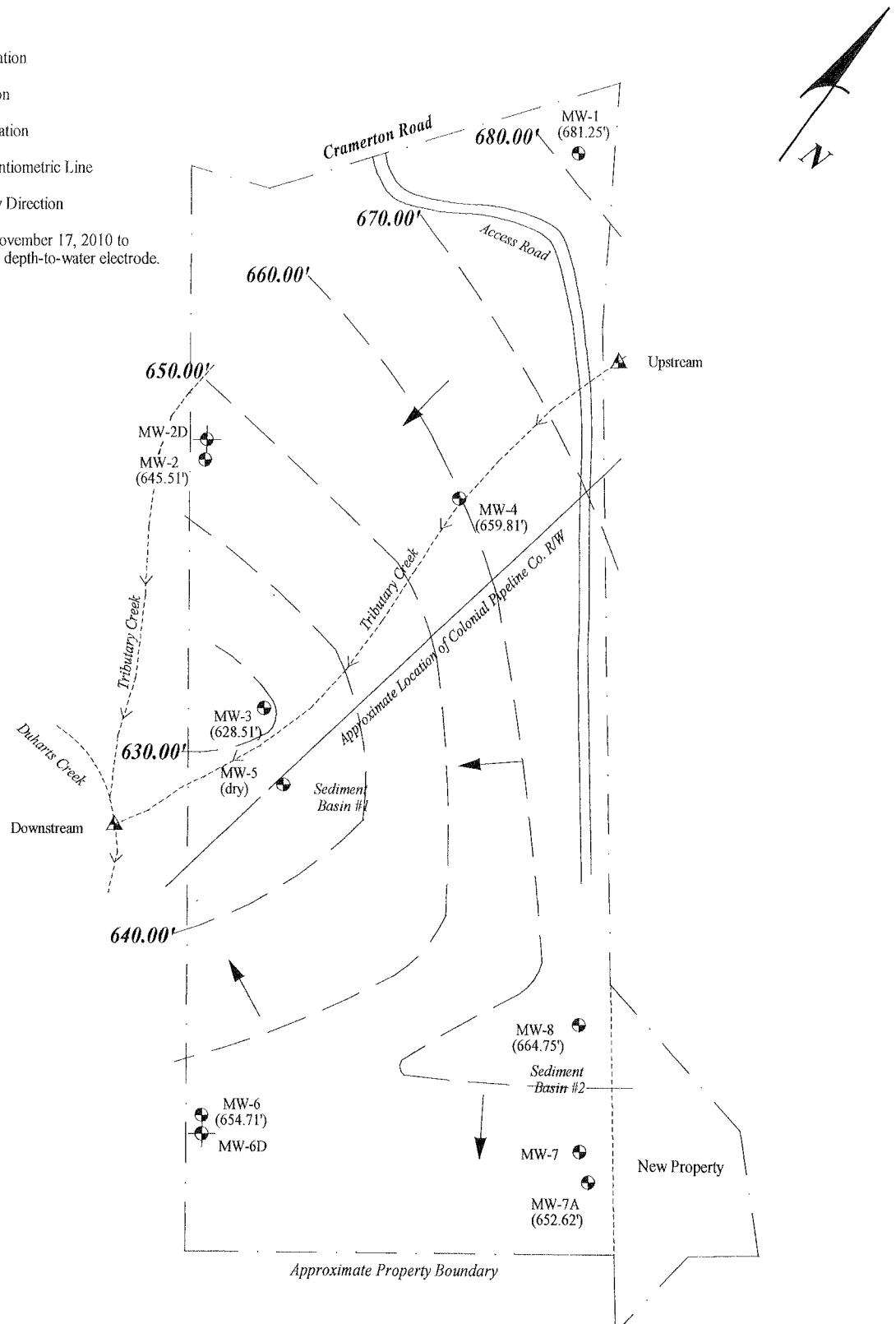
## Legend

- Shallow Monitor Well Location
- Deep Monitor Well Location
- ▲ Surface Water Sample Location

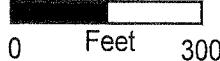
650.00' Shallow Groundwater Potentiometric Line

Shallow Groundwater Flow Direction

Water levels obtained on November 17, 2010 to the nearest 0.01 foot with a depth-to-water electrode.



Scale



rk:sketch:crfl1110

Gaston County  
Closed Cramerton Landfill  
Gaston County, North Carolina

Buxton Environmental, Inc.

Figure 3.  
Shallow Groundwater Flow  
Second Semi-Annual 2010

## Legend

● Shallow Monitor Well Location

○ Deep Monitor Well Location

▲ Surfacewater Sample Location

Groundwater and surface water samples collected November 17, 2010 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc.

DCB = Dichlorobenzene

DCA = Dichloroethane

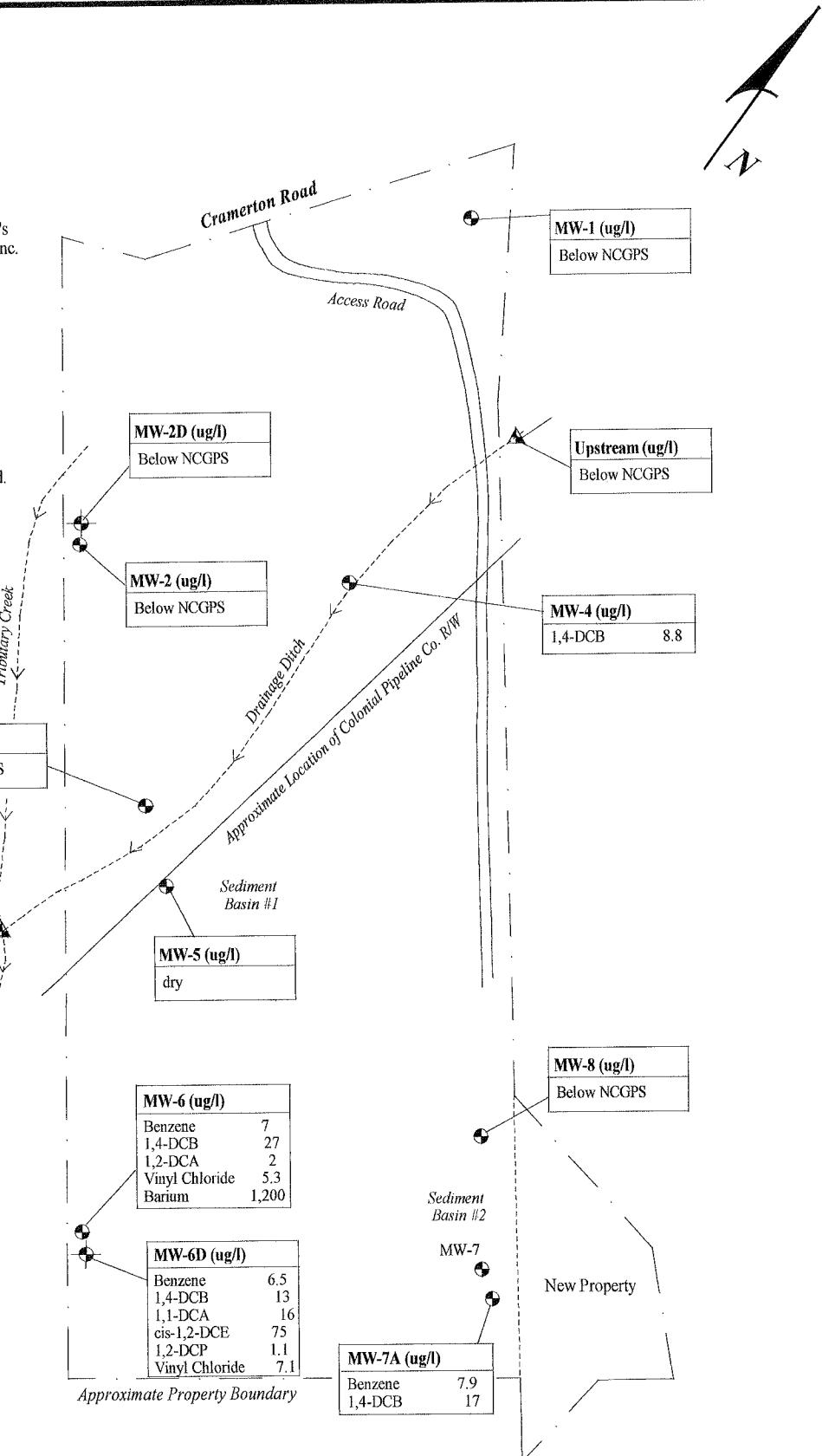
DCP = Dichloropropane

BDL = below detection limit  
ug/l = microgram per liter

B = detected in method blank

Only constituents detected above North Carolina Groundwater Protection Standards (NCGPS) presented.

Scale



rk:sketch:crgw1108

Gaston County  
Closed Cramerton Landfill  
Gaston County, North Carolina

Buxton Environmental, Inc.

Figure 4.  
Groundwater Analytical Results  
Second Semi-Annual 2010

*TABLES*

**TABLE 1**  
**GROUNDWATER GAUGING DATA**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**  
**NOVEMBER 17, 2010**

<i>Well ID</i>	<i>TD BTOC (ft)</i>	<i>TOC Elevation (ft)</i>	<i>DTW BTOC (ft)</i>	<i>DTW Elevation (ft)</i>
MW-1	23.90	702.23	20.98	681.25
MW-2	17.50	652.34	6.83	645.51
MW-2D	53.00	656.54	10.19	646.35
MW-3	15.50	643.73	15.22	628.51
MW-4	10.00	667.20	7.39	659.81
MW-5	11.70	646.88	dry	dry
MW-6	29.00	682.36	27.65	654.71
MW-6D	56.00	685.74	32.80	652.94
MW-7A	38.00	680.03	27.41	652.62
MW-8	26.00	671.01	6.26	664.75

Notes:

Depth to water measurements collected on November 17, 2010 to the nearest 0.01 foot  
with a depth to water meter.

TD=total depth;BTOC=below top of casing;TOC=top of casing;DTW=depth to water;ft=feet

**TABLE 2**  
**FIELD PARAMETER DATA**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**  
**NOVEMBER 17, 2010**

<i>Sample ID</i>	<i>Field Parameters</i>		
	<i>pH (standard units)</i>	<i>K (uS)</i>	<i>T (fahrenheit)</i>
MW-1	5.84	107	65.3
MW-2	6.34	358	59.0
MW-2D	9.33	445	60.2
MW-3	6.75	350	60.1
MW-4	6.36	114	58.9
MW-5	dry	dry	dry
MW-6	6.34	1,366	58.0
MW-6D	6.54	1,220	59.0
MW-7A	6.29	1,039	60.7
MW-8	6.21	211	61.8
Upstream	7.77	123	58.6
Downstream	7.37	238	58.3

Notes:

Field parameters collected on November 17, 2010

SU = standard units

uS = microsiemens

K = conductivity; T = temperature

**TABLE 3**  
**GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**  
**NOVEMBER 17, 2010**

Sample ID	MW-1	MW-2	MW-2D	MW-3	MW-4	MW-5	MW-6	MW-6D	MW-7A	MW-8	NCGPS
<b>Appendix I VOC's</b>											
Acetone	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	13J	BDL	6,000
Benzene	BDL	0.84J	BDL	BDL	0.74J	NT	7	6.5	7.9	BDL	1
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	BDL	700
Chlorobenzene	BDL	5.8	BDL	BDL	12	NT	1.5	1.5	5.1	BDL	50
Chloroethane	BDL	BDL	BDL	BDL	0.5J	NT	1.7J	1.2J	0.64J	BDL	3,000
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	1.2	NT	1.2	0.99J	BDL	BDL	20
1,4-Dichlorobenzene	BDL	4.2	0.44J	BDL	8.8	NT	27	13	17	BDL	6
1,1-Dichloroethane	BDL	1.3	3.1	BDL	0.14J	NT	2.1	16	0.36J	BDL	6
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	NT	2	BDL	BDL	BDL	0.4
1,1-Dichloroethylene	BDL	2.9	2.4	BDL	BDL	NT	BDL	0.97J	BDL	BDL	7
cis-1,2 Dichloroethylene	BDL	2.8	2.2	BDL	BDL	NT	67	75	0.9J	BDL	70
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	NT	0.71J	1.1	BDL	BDL	0.6
4-Methyl-2-Pentanone	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	2.5J	BDL	560
Vinyl Chloride	BDL	0.8J	BDL	BDL	BDL	NT	5.3	7.1	BDL	BDL	0.03
Xylenes	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	4.9	BDL	500
<b>RCRA Metals</b>											
Arsenic	BDL	4J	BDL	NT	BDL	NT	BDL	BDL	BDL	BDL	10
Barium	35	320	9.7J	NT	620	NT	1,200	250	430	39	700
Cadmium	0.16J	1.1J	BDL	NT	0.64J	NT	1.2J	BDL	BDL	BDL	2
Lead	BDL	12	BDL	NT	BDL	NT	BDL	BDL	BDL	BDL	15
Mercury	BDL	0.27	BDL	NT	BDL	NT	0.06J	BDL	BDL	BDL	1

Notes:

Groundwater samples were collected on November 17, 2010 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc. in W. Columbia, SC.

BDL = below detection limit; NS = no standard;

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

Bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

NT = not tested, due to dry well or limited water

rk:table:cramgw.1110

**TABLE 4**  
**SURFACE WATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**  
**NOVEMBER 17, 2010**

<i>Sample ID</i>	<i>Upstream</i>	<i>Downstream</i>	<i>NCGPS</i>
<i>Appendix I VOC's</i>			
Acetone	BDL	8.4J	6,000
<i>RCRA Metals</i>			
Barium	40	56	700

Notes:

Surface water samples collected November 17, 2010 and analyzed for Appendix I VOC's and RCRA Metals by Shealy Environmental Services, Inc. in W. Columbia, SC.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

data presented in micrograms per liter (ug/l)

J = estimated result <PQL and >=MDL

*APPENDIX A*  
*LABORATORY DATA SHEETS*

# SHEALY ENVIRONMENTAL SERVICES, INC.

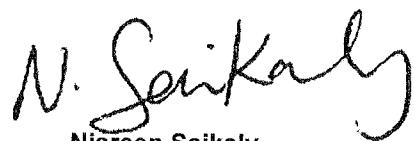
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## Report of Analysis

**Buxton Environmental**  
PO Box 11550  
Charlotte, NC 28220  
Attention: Ross Klingman

Project Name: **Gaston Co - Cramerton Landfill**

Lot Number: **LK19068**  
Date Completed: **12/01/2010**



**Nisreen Saikaly**  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • •

# SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DEHNR No: 329

**Case Narrative  
Buxton Environmental  
Lot Number: LK19068**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

**Sample Summary**  
**Buxton Environmental**  
**Lot Number: LK19068**

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	11/17/2010 1145	11/19/2010
002	MW-2	Aqueous	11/17/2010 1200	11/19/2010
003	MW-2D	Aqueous	11/17/2010 1230	11/19/2010
004	MW-3	Aqueous	11/17/2010 1315	11/19/2010
005	MW-4	Aqueous	11/17/2010 1245	11/19/2010
006	MW-6	Aqueous	11/17/2010 1430	11/19/2010
007	MW-6D	Aqueous	11/17/2010 1500	11/19/2010
008	MW-7A	Aqueous	11/17/2010 1400	11/19/2010
009	MW-8	Aqueous	11/17/2010 1345	11/19/2010
010	UPSTREAM	Aqueous	11/17/2010 1115	11/19/2010
011	DOWNSTREAM	Aqueous	11/17/2010 1330	11/19/2010
012	TRIP BLANK	Aqueous	11/17/2010	11/19/2010

(12 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

**Executive Summary  
Buxton Environmental  
Lot Number: LK19068**

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	MW-1	Aqueous	Barium	6010C	0.035		mg/L	8
001	MW-1	Aqueous	Cadmium	6010C	0.0016	J	mg/L	8
002	MW-2	Aqueous	Benzene	8260B	0.84	J	ug/L	9
002	MW-2	Aqueous	Chlorobenzene	8260B	5.8		ug/L	9
002	MW-2	Aqueous	1,4-Dichlorobenzene	8260B	4.2		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethane	8260B	1.3		ug/L	9
002	MW-2	Aqueous	1,1-Dichloroethene	8260B	2.9		ug/L	9
002	MW-2	Aqueous	cis-1,2-Dichloroethene	8260B	2.8		ug/L	9
002	MW-2	Aqueous	Vinyl chloride	8260B	0.80	J	ug/L	10
002	MW-2	Aqueous	Arsenic	6010C	0.0040	J	mg/L	11
002	MW-2	Aqueous	Barium	6010C	0.32		mg/L	11
002	MW-2	Aqueous	Cadmium	6010C	0.0011	J	mg/L	11
002	MW-2	Aqueous	Lead	6010C	0.012		mg/L	11
002	MW-2	Aqueous	Mercury	7470A	0.00027		mg/L	11
003	MW-2D	Aqueous	1,4-Dichlorobenzene	8260B	0.44	J	ug/L	12
003	MW-2D	Aqueous	1,1-Dichloroethane	8260B	3.1		ug/L	12
003	MW-2D	Aqueous	1,1-Dichloroethene	8260B	2.4		ug/L	12
003	MW-2D	Aqueous	cis-1,2-Dichloroethene	8260B	2.2		ug/L	12
003	MW-2D	Aqueous	Barium	6010C	0.0097	J	mg/L	14
005	MW-4	Aqueous	Benzene	8260B	0.74	J	ug/L	17
005	MW-4	Aqueous	Chlorobenzene	8260B	12		ug/L	17
005	MW-4	Aqueous	Chloroethane	8260B	0.50	J	ug/L	17
005	MW-4	Aqueous	1,2-Dichlorobenzene	8260B	1.2		ug/L	17
005	MW-4	Aqueous	1,4-Dichlorobenzene	8260B	8.8		ug/L	17
005	MW-4	Aqueous	1,1-Dichloroethane	8260B	0.14	J	ug/L	17
005	MW-4	Aqueous	Barium	6010C	0.62		mg/L	19
005	MW-4	Aqueous	Cadmium	6010C	0.00064	J	mg/L	19
006	MW-6	Aqueous	Benzene	8260B	7.0		ug/L	20
006	MW-6	Aqueous	Chlorobenzene	8260B	1.5		ug/L	20
006	MW-6	Aqueous	Chloroethane	8260B	1.7	J	ug/L	20
006	MW-6	Aqueous	1,2-Dichlorobenzene	8260B	1.2		ug/L	20
006	MW-6	Aqueous	1,4-Dichlorobenzene	8260B	27		ug/L	20
006	MW-6	Aqueous	1,1-Dichloroethane	8260B	2.1		ug/L	20
006	MW-6	Aqueous	1,2-Dichloroethane	8260B	2.0		ug/L	20
006	MW-6	Aqueous	cis-1,2-Dichloroethene	8260B	67		ug/L	20
006	MW-6	Aqueous	1,2-Dichloropropane	8260B	0.71	J	ug/L	20
006	MW-6	Aqueous	Vinyl chloride	8260B	5.3		ug/L	21
006	MW-6	Aqueous	Barium	6010C	1.2		mg/L	22
006	MW-6	Aqueous	Cadmium	6010C	0.0012	J	mg/L	22
006	MW-6	Aqueous	Mercury	7470A	0.000060	J	mg/L	22
007	MW-6D	Aqueous	Benzene	8260B	6.5		ug/L	23
007	MW-6D	Aqueous	Chlorobenzene	8260B	1.5		ug/L	23
007	MW-6D	Aqueous	Chloroethane	8260B	1.2	J	ug/L	23
007	MW-6D	Aqueous	1,2-Dichlorobenzene	8260B	0.99	J	ug/L	23
007	MW-6D	Aqueous	1,4-Dichlorobenzene	8260B	13		ug/L	23

# Executive Summary (Continued)

Lot Number: LK19068

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	MW-6D	Aqueous	1,1-Dichloroethane	8260B	16		ug/L	23
007	MW-6D	Aqueous	1,1-Dichloroethene	8260B	0.97	J	ug/L	23
007	MW-6D	Aqueous	cis-1,2-Dichloroethene	8260B	75		ug/L	23
007	MW-6D	Aqueous	1,2-Dichloropropane	8260B	1.1		ug/L	23
007	MW-6D	Aqueous	Vinyl chloride	8260B	7.1		ug/L	24
007	MW-6D	Aqueous	Barium	6010C	0.25		mg/L	25
008	MW-7A	Aqueous	Acetone	8260B	13	J	ug/L	26
008	MW-7A	Aqueous	Benzene	8260B	7.9		ug/L	26
008	MW-7A	Aqueous	Chlorobenzene	8260B	5.1		ug/L	26
008	MW-7A	Aqueous	Chloroethane	8260B	0.64	J	ug/L	26
008	MW-7A	Aqueous	1,4-Dichlorobenzene	8260B	17		ug/L	26
008	MW-7A	Aqueous	1,1-Dichloroethane	8260B	0.36	J	ug/L	26
008	MW-7A	Aqueous	cis-1,2-Dichloroethene	8260B	0.90	J	ug/L	26
008	MW-7A	Aqueous	4-Methyl-2-pentanone	8260B	2.5	J	ug/L	26
008	MW-7A	Aqueous	Xylenes (total)	8260B	4.9		ug/L	27
008	MW-7A	Aqueous	Barium	6010C	0.43		mg/L	28
009	MW-8	Aqueous	Barium	6010C	0.039		mg/L	31
010	UPSTREAM	Aqueous	Barium	6010C	0.040		mg/L	34
011	DOWNSTREAM	Aqueous	Acetone	8260B	8.4	J	ug/L	35
011	DOWNSTREAM	Aqueous	Barium	6010C	0.056		mg/L	37

(65 detections)

## volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-001

Description: MW-1

Matrix: Aqueous

Date Sampled: 11/17/2010 1145

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0330	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND	20	6.7	ug/L	1	
Acrylonitrile		107-13-1	8260B	ND	20	1.2	ug/L	1	
Benzene		71-43-2	8260B	ND	1.0	0.13	ug/L	1	
Bromochloromethane		74-97-5	8260B	ND	1.0	0.16	ug/L	1	
Bromodichloromethane		75-27-4	8260B	ND	1.0	0.33	ug/L	1	
Bromoform		75-25-2	8260B	ND	1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)		74-83-9	8260B	ND	2.0	0.80	ug/L	1	
2-Butanone (MEK)		78-93-3	8260B	ND	10	2.0	ug/L	1	
Carbon disulfide		75-15-0	8260B	ND	1.0	0.097	ug/L	1	
Carbon tetrachloride		56-23-5	8260B	ND	1.0	0.14	ug/L	1	
Chlorobenzene		108-90-7	8260B	ND	1.0	0.33	ug/L	1	
Chloroethane		75-00-3	8260B	ND	2.0	0.47	ug/L	1	
Chloroform		67-66-3	8260B	ND	1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)		74-87-3	8260B	ND	1.0	0.35	ug/L	1	
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND	1.0	0.60	ug/L	1	
Dibromochloromethane		124-48-1	8260B	ND	1.0	0.33	ug/L	1	
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND	1.0	0.30	ug/L	1	
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND	1.0	0.35	ug/L	1	
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND	2.0	0.83	ug/L	1	
1,2-Dichlorobenzene		95-50-1	8260B	ND	1.0	0.33	ug/L	1	
1,4-Dichlorobenzene		106-46-7	8260B	ND	1.0	0.33	ug/L	1	
1,1-Dichloroethane		75-34-3	8260B	ND	1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.15	ug/L	1	
1,1-Dichloroethene		75-35-4	8260B	ND	1.0	0.16	ug/L	1	
cis-1,2-Dichloroethene		156-59-2	8260B	ND	1.0	0.12	ug/L	1	
trans-1,2-Dichloroethene		156-60-5	8260B	ND	1.0	0.21	ug/L	1	
1,2-Dichloropropane		78-87-5	8260B	ND	1.0	0.19	ug/L	1	
cis-1,3-Dichloropropene		10061-01-5	8260B	ND	1.0	0.092	ug/L	1	
trans-1,3-Dichloropropene		10061-02-6	8260B	ND	1.0	0.11	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND	1.0	0.33	ug/L	1	
2-Hexanone		591-78-6	8260B	ND	10	0.27	ug/L	1	
Methyl iodide (Iodomethane)		74-88-4	8260B	ND	5.0	1.2	ug/L	1	
4-Methyl-2-pentanone		108-10-1	8260B	ND	10	0.31	ug/L	1	
Methylene chloride		75-09-2	8260B	ND	1.0	0.33	ug/L	1	
Styrene		100-42-5	8260B	ND	1.0	0.12	ug/L	1	
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND	1.0	0.20	ug/L	1	
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND	1.0	0.16	ug/L	1	
Tetrachloroethene		127-18-4	8260B	ND	1.0	0.13	ug/L	1	
Toluene		108-88-3	8260B	ND	1.0	0.33	ug/L	1	
1,1,1-Trichloroethane		71-55-6	8260B	ND	1.0	0.074	ug/L	1	
1,1,2-Trichloroethane		79-00-5	8260B	ND	1.0	0.21	ug/L	1	
Trichloroethene		79-01-6	8260B	ND	1.0	0.18	ug/L	1	
Trichlorofluoromethane		75-69-4	8260B	ND	1.0	0.30	ug/L	1	
1,2,3-Trichloropropane		96-18-4	8260B	ND	1.0	0.33	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental	Laboratory ID: LK19068-001
Description: MW-1	Matrix: Aqueous
Date Sampled: 11/17/2010 1145	
Date Received: 11/19/2010	

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0330	Analyst LBS	Prep Date	Batch 47271			
Parameter		CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate		108-05-4		8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride		75-01-4		8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)		1330-20-7		8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits						
1,2-Dichloroethane-d4		109		70-130						
Bromofluorobenzene		97		70-130						
Toluene-d8		107		70-130						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: Buxton Environmental

Laboratory ID: LK19068-001

Description: MW-1

Matrix: Aqueous

Date Sampled: 11/17/2010 1145

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0333	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2019	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.035		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	0.0016	J	0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-002

Description: MW-2

Matrix: Aqueous

Date Sampled: 11/17/2010 1200

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0351	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile		107-13-1	8260B	ND		20	1.2	ug/L	1
<b>Benzene</b>		<b>71-43-2</b>	<b>8260B</b>	<b>0.84</b>	<b>J</b>	<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
Bromochloromethane		74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane		75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform		75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide		75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND		1.0	0.14	ug/L	1
<b>Chlorobenzene</b>		<b>108-90-7</b>	<b>8260B</b>	<b>5.8</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
Chloroethane		75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform		67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane		124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene		95-50-1	8260B	ND		1.0	0.33	ug/L	1
<b>1,4-Dichlorobenzene</b>		<b>106-46-7</b>	<b>8260B</b>	<b>4.2</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>		<b>75-34-3</b>	<b>8260B</b>	<b>1.3</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1
<b>1,1-Dichloroethene</b>		<b>75-35-4</b>	<b>8260B</b>	<b>2.9</b>		<b>1.0</b>	<b>0.16</b>	<b>ug/L</b>	<b>1</b>
<b>cis-1,2-Dichloroethene</b>		<b>156-59-2</b>	<b>8260B</b>	<b>2.8</b>		<b>1.0</b>	<b>0.12</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene		156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane		78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone		591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)		74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone		108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride		75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene		100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene		127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene		79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane		75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane		96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-002

Description: MW-2

Matrix: Aqueous

Date Sampled: 11/17/2010 1200

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0351	LBS		47271

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
<b>Vinyl chloride</b>	<b>75-01-4</b>	<b>8260B</b>	<b>0.80</b>	<b>J</b>	<b>1.0</b>	<b>0.054</b>	<b>ug/L</b>	<b>1</b>
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		111	70-130					
Bromofluorobenzene		100	70-130					
Toluene-d8		108	70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: Buxton Environmental

Laboratory ID: LK19068-002

Description: MW-2

Matrix: Aqueous

Date Sampled: 11/17/2010 1200

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0336	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2024	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	0.0040	J	0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.32		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	0.0011	J	0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	0.012		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.00027		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-003

Description: MW-2D

Matrix: Aqueous

Date Sampled: 11/17/2010 1230

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0412	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile		107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene		71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane		74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane		75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform		75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide		75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene		108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane		75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform		67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane		124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene		95-50-1	8260B	ND		1.0	0.33	ug/L	1
<b>1,4-Dichlorobenzene</b>		<b>106-46-7</b>	<b>8260B</b>	<b>0.44</b>	<b>J</b>	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>		<b>75-34-3</b>	<b>8260B</b>	<b>3.1</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1
<b>1,1-Dichloroethene</b>		<b>75-35-4</b>	<b>8260B</b>	<b>2.4</b>		<b>1.0</b>	<b>0.16</b>	<b>ug/L</b>	<b>1</b>
<b>cis-1,2-Dichloroethene</b>		<b>156-59-2</b>	<b>8260B</b>	<b>2.2</b>		<b>1.0</b>	<b>0.12</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene		156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane		78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone		591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)		74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone		108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride		75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene		100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene		127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene		79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane		75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane		96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-003

Description: MW-2D

Matrix: Aqueous

Date Sampled: 11/17/2010 1230

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0412	LBS		47271

Parameter	Q	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
		Run 1 % Recovery							
Vinyl acetate		108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride		75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		111		70-130					
Bromofluorobenzene		99		70-130					
Toluene-d8		108		70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## RCRA Metals

Client: Buxton Environmental

Laboratory ID: LK19068-003

Description: MW-2D

Matrix: Aqueous

Date Sampled: 11/17/2010 1230

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0339	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2028	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.0097	J	0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-004

Description: MW-3

Matrix: Aqueous

Date Sampled: 11/17/2010 1315

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0433	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND	20	6.7	ug/L	1	
Acrylonitrile		107-13-1	8260B	ND	20	1.2	ug/L	1	
Benzene		71-43-2	8260B	ND	1.0	0.13	ug/L	1	
Bromochloromethane		74-97-5	8260B	ND	1.0	0.16	ug/L	1	
Bromodichloromethane		75-27-4	8260B	ND	1.0	0.33	ug/L	1	
Bromoform		75-25-2	8260B	ND	1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)		74-83-9	8260B	ND	2.0	0.80	ug/L	1	
2-Butanone (MEK)		78-93-3	8260B	ND	10	2.0	ug/L	1	
Carbon disulfide		75-15-0	8260B	ND	1.0	0.097	ug/L	1	
Carbon tetrachloride		56-23-5	8260B	ND	1.0	0.14	ug/L	1	
Chlorobenzene		108-90-7	8260B	ND	1.0	0.33	ug/L	1	
Chloroethane		75-00-3	8260B	ND	2.0	0.47	ug/L	1	
Chloroform		67-66-3	8260B	ND	1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)		74-87-3	8260B	ND	1.0	0.35	ug/L	1	
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND	1.0	0.60	ug/L	1	
Dibromochloromethane		124-48-1	8260B	ND	1.0	0.33	ug/L	1	
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND	1.0	0.30	ug/L	1	
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND	1.0	0.35	ug/L	1	
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND	2.0	0.83	ug/L	1	
1,2-Dichlorobenzene		95-50-1	8260B	ND	1.0	0.33	ug/L	1	
1,4-Dichlorobenzene		106-46-7	8260B	ND	1.0	0.33	ug/L	1	
1,1-Dichloroethane		75-34-3	8260B	ND	1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.15	ug/L	1	
1,1-Dichloroethene		75-35-4	8260B	ND	1.0	0.16	ug/L	1	
cis-1,2-Dichloroethene		156-59-2	8260B	ND	1.0	0.12	ug/L	1	
trans-1,2-Dichloroethene		156-60-5	8260B	ND	1.0	0.21	ug/L	1	
1,2-Dichloropropane		78-87-5	8260B	ND	1.0	0.19	ug/L	1	
cis-1,3-Dichloropropene		10061-01-5	8260B	ND	1.0	0.092	ug/L	1	
trans-1,3-Dichloropropene		10061-02-6	8260B	ND	1.0	0.11	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND	1.0	0.33	ug/L	1	
2-Hexanone		591-78-6	8260B	ND	10	0.27	ug/L	1	
Methyl iodide (Iodomethane)		74-88-4	8260B	ND	5.0	1.2	ug/L	1	
4-Methyl-2-pentanone		108-10-1	8260B	ND	10	0.31	ug/L	1	
Methylene chloride		75-09-2	8260B	ND	1.0	0.33	ug/L	1	
Styrene		100-42-5	8260B	ND	1.0	0.12	ug/L	1	
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND	1.0	0.20	ug/L	1	
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND	1.0	0.16	ug/L	1	
Tetrachloroethene		127-18-4	8260B	ND	1.0	0.13	ug/L	1	
Toluene		108-88-3	8260B	ND	1.0	0.33	ug/L	1	
1,1,1-Trichloroethane		71-55-6	8260B	ND	1.0	0.074	ug/L	1	
1,1,2-Trichloroethane		79-00-5	8260B	ND	1.0	0.21	ug/L	1	
Trichloroethene		79-01-6	8260B	ND	1.0	0.18	ug/L	1	
Trichlorofluoromethane		75-69-4	8260B	ND	1.0	0.30	ug/L	1	
1,2,3-Trichloropropane		96-18-4	8260B	ND	1.0	0.33	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-004

Description: MW-3

Matrix: Aqueous

Date Sampled: 11/17/2010 1315

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	11/24/2010 0433	LBS		47271			
Parameter		CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate		108-05-4		8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride		75-01-4		8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)		1330-20-7		8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits						
1,2-Dichloroethane-d4		111		70-130						
Bromofluorobenzene		100		70-130						
Toluene-d8		108		70-130						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-005

Description: MW-4

Matrix: Aqueous

Date Sampled: 11/17/2010 1245

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0454	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile		107-13-1	8260B	ND		20	1.2	ug/L	1
<b>Benzene</b>		<b>71-43-2</b>	<b>8260B</b>	<b>0.74</b>	<b>J</b>	<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
Bromochloromethane		74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane		75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform		75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide		75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND		1.0	0.14	ug/L	1
<b>Chlorobenzene</b>		<b>108-90-7</b>	<b>8260B</b>	<b>12</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
Chloroethane		75-00-3	8260B	0.50	J	2.0	0.47	ug/L	1
Chloroform		67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane		124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND		2.0	0.83	ug/L	1
<b>1,2-Dichlorobenzene</b>		<b>95-50-1</b>	<b>8260B</b>	<b>1.2</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,4-Dichlorobenzene</b>		<b>106-46-7</b>	<b>8260B</b>	<b>8.8</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>		<b>75-34-3</b>	<b>8260B</b>	<b>0.14</b>	<b>J</b>	<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene		75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene		156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene		156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane		78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone		591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)		74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone		108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride		75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene		100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene		127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene		79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane		75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane		96-18-4	8260B	ND		1.0	0.33	ug/L	1

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J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-005

Description: MW-4

Matrix: Aqueous

Date Sampled: 11/17/2010 1245

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0454	LBS		47271

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		109	70-130					
Bromofluorobenzene		98	70-130					
Toluene-d8		107	70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# RCRA Metals

Client: Buxton Environmental

Laboratory ID: LK19068-005

Description: MW-4

Matrix: Aqueous

Date Sampled: 11/17/2010 1245

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0343	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2033	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.62		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	0.00064	J	0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

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E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-006

Description: MW-6

Matrix: Aqueous

Date Sampled: 11/17/2010 1430

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0514	Analyst LBS	Prep Date	Batch 47271		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile		107-13-1	8260B	ND		20	1.2	ug/L	1
<b>Benzene</b>		<b>71-43-2</b>	<b>8260B</b>	<b>7.0</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
Bromochloromethane		74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane		75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform		75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide		75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND		1.0	0.14	ug/L	1
<b>Chlorobenzene</b>		<b>108-90-7</b>	<b>8260B</b>	<b>1.5</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>Chloroethane</b>		<b>75-00-3</b>	<b>8260B</b>	<b>1.7</b>	J	<b>2.0</b>	<b>0.47</b>	<b>ug/L</b>	<b>1</b>
Chloroform		67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane		124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND		2.0	0.83	ug/L	1
<b>1,2-Dichlorobenzene</b>		<b>95-50-1</b>	<b>8260B</b>	<b>1.2</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,4-Dichlorobenzene</b>		<b>106-46-7</b>	<b>8260B</b>	<b>27</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>		<b>75-34-3</b>	<b>8260B</b>	<b>2.1</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
<b>1,2-Dichloroethane</b>		<b>107-06-2</b>	<b>8260B</b>	<b>2.0</b>		<b>1.0</b>	<b>0.15</b>	<b>ug/L</b>	<b>1</b>
1,1-Dichloroethene		75-35-4	8260B	ND		1.0	0.16	ug/L	1
<b>cis-1,2-Dichloroethene</b>		<b>156-59-2</b>	<b>8260B</b>	<b>67</b>		<b>1.0</b>	<b>0.12</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene		156-60-5	8260B	ND		1.0	0.21	ug/L	1
<b>1,2-Dichloropropane</b>		<b>78-87-5</b>	<b>8260B</b>	<b>0.71</b>	J	<b>1.0</b>	<b>0.19</b>	<b>ug/L</b>	<b>1</b>
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone		591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)		74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone		108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride		75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene		100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene		127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene		79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane		75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane		96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-006

Description: MW-6

Matrix: Aqueous

Date Sampled: 11/17/2010 1430

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	11/24/2010 0514	LBS		47271			
Parameter		CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate		108-05-4		8260B	ND		5.0	1.3	ug/L	1
<b>Vinyl chloride</b>		<b>75-01-4</b>		<b>8260B</b>	<b>5.3</b>		<b>1.0</b>	<b>0.054</b>	<b>ug/L</b>	<b>1</b>
Xylenes (total)		1330-20-7		8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits						
1,2-Dichloroethane-d4		110		70-130						
Bromofluorobenzene		101		70-130						
Toluene-d8		106		70-130						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: Buxton Environmental

Laboratory ID: LK19068-006

Description: MW-6

Matrix: Aqueous

Date Sampled: 11/17/2010 1430

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0346	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2046	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	1.2		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	0.0012	J	0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	0.000060	J	0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-007

Description: MW-6D

Matrix: Aqueous

Date Sampled: 11/17/2010 1500

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0823	LBS		47272
2	5030B	8260B	1	11/24/2010 2232	LBS		47375

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
<b>Benzene</b>	<b>71-43-2</b>	<b>8260B</b>	<b>6.5</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
<b>Chlorobenzene</b>	<b>108-90-7</b>	<b>8260B</b>	<b>1.5</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>Chloroethane</b>	<b>75-00-3</b>	<b>8260B</b>	<b>1.2</b>	J	<b>2.0</b>	<b>0.47</b>	<b>ug/L</b>	<b>1</b>
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
<b>1,2-Dichlorobenzene</b>	<b>95-50-1</b>	<b>8260B</b>	<b>0.99</b>	J	<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,4-Dichlorobenzene</b>	<b>106-46-7</b>	<b>8260B</b>	<b>13</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>	<b>75-34-3</b>	<b>8260B</b>	<b>16</b>		<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	2
<b>1,1-Dichloroethene</b>	<b>75-35-4</b>	<b>8260B</b>	<b>0.97</b>	J	<b>1.0</b>	<b>0.16</b>	<b>ug/L</b>	<b>1</b>
<b>cis-1,2-Dichloroethene</b>	<b>156-59-2</b>	<b>8260B</b>	<b>75</b>		<b>1.0</b>	<b>0.12</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
<b>1,2-Dichloropropane</b>	<b>78-87-5</b>	<b>8260B</b>	<b>1.1</b>		<b>1.0</b>	<b>0.19</b>	<b>ug/L</b>	<b>1</b>
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental	Laboratory ID: LK19068-007
Description: MW-6D	Matrix: Aqueous
Date Sampled: 11/17/2010 1500	
Date Received: 11/19/2010	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0823	LBS		47272
2	5030B	8260B	1	11/24/2010 2232	LBS		47375

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	7.1		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits		
1,2-Dichloroethane-d4		109	70-130		111	70-130		
Bromofluorobenzene		99	70-130		102	70-130		
Toluene-d8		108	70-130		108	70-130		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# RCRA Metals

Client: Buxton Environmental

Laboratory ID: LK19068-007

Description: MW-6D

Matrix: Aqueous

Date Sampled: 11/17/2010 1500

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0349	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2051	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND	0.010	0.0040	mg/L	1	
Barium	7440-39-3	6010C	0.25	0.025	0.0075	mg/L	1	
Cadmium	7440-43-9	6010C	ND	0.0020	0.00060	mg/L	1	
Chromium	7440-47-3	6010C	ND	0.0050	0.0021	mg/L	1	
Lead	7439-92-1	6010C	ND	0.010	0.0019	mg/L	1	
Mercury	7439-97-6	7470A	ND	0.00010	0.000053	mg/L	1	
Selenium	7782-49-2	6010C	ND	0.010	0.0026	mg/L	1	
Silver	7440-22-4	6010C	ND	0.0050	0.00040	mg/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-008

Description: MW-7A

Matrix: Aqueous

Date Sampled: 11/17/2010 1400

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0843	Analyst LBS	Prep Date	Batch 47272		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	13	J	20	6.7	ug/L	1
Acrylonitrile		107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene		71-43-2	8260B	7.9		1.0	0.13	ug/L	1
Bromochloromethane		74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane		75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform		75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)		74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)		78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide		75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride		56-23-5	8260B	ND		1.0	0.14	ug/L	1
<b>Chlorobenzene</b>		<b>108-90-7</b>	<b>8260B</b>	<b>5.1</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>Chloroethane</b>		<b>75-00-3</b>	<b>8260B</b>	<b>0.64</b>	<b>J</b>	<b>2.0</b>	<b>0.47</b>	<b>ug/L</b>	<b>1</b>
Chloroform		67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)		74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane		124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene		95-50-1	8260B	ND		1.0	0.33	ug/L	1
<b>1,4-Dichlorobenzene</b>		<b>106-46-7</b>	<b>8260B</b>	<b>17</b>		<b>1.0</b>	<b>0.33</b>	<b>ug/L</b>	<b>1</b>
<b>1,1-Dichloroethane</b>		<b>75-34-3</b>	<b>8260B</b>	<b>0.36</b>	<b>J</b>	<b>1.0</b>	<b>0.13</b>	<b>ug/L</b>	<b>1</b>
1,2-Dichloroethane		107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene		75-35-4	8260B	ND		1.0	0.16	ug/L	1
<b>cis-1,2-Dichloroethene</b>		<b>156-59-2</b>	<b>8260B</b>	<b>0.90</b>	<b>J</b>	<b>1.0</b>	<b>0.12</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene		156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane		78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene		10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene		10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene		100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone		591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)		74-88-4	8260B	ND		5.0	1.2	ug/L	1
<b>4-Methyl-2-pentanone</b>		<b>108-10-1</b>	<b>8260B</b>	<b>2.5</b>	<b>J</b>	<b>10</b>	<b>0.31</b>	<b>ug/L</b>	<b>1</b>
Methylene chloride		75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene		100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene		127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene		108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane		71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane		79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene		79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane		75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane		96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-008

Description: MW-7A

Matrix: Aqueous

Date Sampled: 11/17/2010 1400

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	11/24/2010 0843	LBS		47272			
Parameter		CAS Number		Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate		108-05-4		8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride		75-01-4		8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)		1330-20-7		8260B	4.9		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery		Acceptance Limits						
1,2-Dichloroethane-d4		109		70-130						
Bromofluorobenzene		100		70-130						
Toluene-d8		108		70-130						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: Buxton Environmental

Laboratory ID: LK19068-008

Description: MW-7A

Matrix: Aqueous

Date Sampled: 11/17/2010 1400

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0909	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2056	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND	0.010	0.0040	mg/L	1	
<b>Barium</b>	<b>7440-39-3</b>	<b>6010C</b>	<b>0.43</b>	<b>0.025</b>	<b>0.0075</b>	<b>mg/L</b>	<b>1</b>	
Cadmium	7440-43-9	6010C	ND	0.0020	0.00060	mg/L	1	
Chromium	7440-47-3	6010C	ND	0.0050	0.0021	mg/L	1	
Lead	7439-92-1	6010C	ND	0.010	0.0019	mg/L	1	
Mercury	7439-97-6	7470A	ND	0.00010	0.000053	mg/L	1	
Selenium	7782-49-2	6010C	ND	0.010	0.0026	mg/L	1	
Silver	7440-22-4	6010C	ND	0.0050	0.00040	mg/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-009

Description: MW-8

Matrix: Aqueous

Date Sampled: 11/17/2010 1345

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0904	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND	20	6.7	ug/L	1	
Acrylonitrile	107-13-1	8260B	ND	20	1.2	ug/L	1	
Benzene	71-43-2	8260B	ND	1.0	0.13	ug/L	1	
Bromochloromethane	74-97-5	8260B	ND	1.0	0.16	ug/L	1	
Bromodichloromethane	75-27-4	8260B	ND	1.0	0.33	ug/L	1	
Bromoform	75-25-2	8260B	ND	1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)	74-83-9	8260B	ND	2.0	0.80	ug/L	1	
2-Butanone (MEK)	78-93-3	8260B	ND	10	2.0	ug/L	1	
Carbon disulfide	75-15-0	8260B	ND	1.0	0.097	ug/L	1	
Carbon tetrachloride	56-23-5	8260B	ND	1.0	0.14	ug/L	1	
Chlorobenzene	108-90-7	8260B	ND	1.0	0.33	ug/L	1	
Chloroethane	75-00-3	8260B	ND	2.0	0.47	ug/L	1	
Chloroform	67-66-3	8260B	ND	1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)	74-87-3	8260B	ND	1.0	0.35	ug/L	1	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND	1.0	0.60	ug/L	1	
Dibromochloromethane	124-48-1	8260B	ND	1.0	0.33	ug/L	1	
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND	1.0	0.30	ug/L	1	
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND	1.0	0.35	ug/L	1	
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND	2.0	0.83	ug/L	1	
1,2-Dichlorobenzene	95-50-1	8260B	ND	1.0	0.33	ug/L	1	
1,4-Dichlorobenzene	106-46-7	8260B	ND	1.0	0.33	ug/L	1	
1,1-Dichloroethane	75-34-3	8260B	ND	1.0	0.13	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND	1.0	0.15	ug/L	1	
1,1-Dichloroethene	75-35-4	8260B	ND	1.0	0.16	ug/L	1	
cis-1,2-Dichloroethene	156-59-2	8260B	ND	1.0	0.12	ug/L	1	
trans-1,2-Dichloroethene	156-60-5	8260B	ND	1.0	0.21	ug/L	1	
1,2-Dichloropropane	78-87-5	8260B	ND	1.0	0.19	ug/L	1	
cis-1,3-Dichloropropene	10061-01-5	8260B	ND	1.0	0.092	ug/L	1	
trans-1,3-Dichloropropene	10061-02-6	8260B	ND	1.0	0.11	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND	1.0	0.33	ug/L	1	
2-Hexanone	591-78-6	8260B	ND	10	0.27	ug/L	1	
Methyl iodide (Iodomethane)	74-88-4	8260B	ND	5.0	1.2	ug/L	1	
4-Methyl-2-pentanone	108-10-1	8260B	ND	10	0.31	ug/L	1	
Methylene chloride	75-09-2	8260B	ND	1.0	0.33	ug/L	1	
Styrene	100-42-5	8260B	ND	1.0	0.12	ug/L	1	
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND	1.0	0.20	ug/L	1	
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND	1.0	0.16	ug/L	1	
Tetrachloroethene	127-18-4	8260B	ND	1.0	0.13	ug/L	1	
Toluene	108-88-3	8260B	ND	1.0	0.33	ug/L	1	
1,1,1-Trichloroethane	71-55-6	8260B	ND	1.0	0.074	ug/L	1	
1,1,2-Trichloroethane	79-00-5	8260B	ND	1.0	0.21	ug/L	1	
Trichloroethene	79-01-6	8260B	ND	1.0	0.18	ug/L	1	
Trichlorofluoromethane	75-69-4	8260B	ND	1.0	0.30	ug/L	1	
1,2,3-Trichloropropane	96-18-4	8260B	ND	1.0	0.33	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-009

Description: MW-8

Matrix: Aqueous

Date Sampled: 11/17/2010 1345

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0904	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4	110		70-130					
Bromofluorobenzene	100		70-130					
Toluene-d8	108		70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# RCRA Metals

Client: Buxton Environmental

Laboratory ID: LK19068-009

Description: MW-8

Matrix: Aqueous

Date Sampled: 11/17/2010 1345

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0911	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2100	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.039		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental	Laboratory ID: LK19068-010
Description: UPSTREAM	Matrix: Aqueous
Date Sampled: 11/17/2010 1115	
Date Received: 11/19/2010	

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 0925	Analyst LBS	Prep Date	Batch 47272		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND	20	6.7	ug/L	1	
Acrylonitrile		107-13-1	8260B	ND	20	1.2	ug/L	1	
Benzene		71-43-2	8260B	ND	1.0	0.13	ug/L	1	
Bromochloromethane		74-97-5	8260B	ND	1.0	0.16	ug/L	1	
Bromodichloromethane		75-27-4	8260B	ND	1.0	0.33	ug/L	1	
Bromoform		75-25-2	8260B	ND	1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)		74-83-9	8260B	ND	2.0	0.80	ug/L	1	
2-Butanone (MEK)		78-93-3	8260B	ND	10	2.0	ug/L	1	
Carbon disulfide		75-15-0	8260B	ND	1.0	0.097	ug/L	1	
Carbon tetrachloride		56-23-5	8260B	ND	1.0	0.14	ug/L	1	
Chlorobenzene		108-90-7	8260B	ND	1.0	0.33	ug/L	1	
Chloroethane		75-00-3	8260B	ND	2.0	0.47	ug/L	1	
Chloroform		67-66-3	8260B	ND	1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)		74-87-3	8260B	ND	1.0	0.35	ug/L	1	
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND	1.0	0.60	ug/L	1	
Dibromochloromethane		124-48-1	8260B	ND	1.0	0.33	ug/L	1	
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND	1.0	0.30	ug/L	1	
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND	1.0	0.35	ug/L	1	
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND	2.0	0.83	ug/L	1	
1,2-Dichlorobenzene		95-50-1	8260B	ND	1.0	0.33	ug/L	1	
1,4-Dichlorobenzene		106-46-7	8260B	ND	1.0	0.33	ug/L	1	
1,1-Dichloroethane		75-34-3	8260B	ND	1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.15	ug/L	1	
1,1-Dichloroethene		75-35-4	8260B	ND	1.0	0.16	ug/L	1	
cis-1,2-Dichloroethene		156-59-2	8260B	ND	1.0	0.12	ug/L	1	
trans-1,2-Dichloroethene		156-60-5	8260B	ND	1.0	0.21	ug/L	1	
1,2-Dichloropropane		78-87-5	8260B	ND	1.0	0.19	ug/L	1	
cis-1,3-Dichloropropene		10061-01-5	8260B	ND	1.0	0.092	ug/L	1	
trans-1,3-Dichloropropene		10061-02-6	8260B	ND	1.0	0.11	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND	1.0	0.33	ug/L	1	
2-Hexanone		591-78-6	8260B	ND	10	0.27	ug/L	1	
Methyl iodide (Iodomethane)		74-88-4	8260B	ND	5.0	1.2	ug/L	1	
4-Methyl-2-pentanone		108-10-1	8260B	ND	10	0.31	ug/L	1	
Methylene chloride		75-09-2	8260B	ND	1.0	0.33	ug/L	1	
Styrene		100-42-5	8260B	ND	1.0	0.12	ug/L	1	
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND	1.0	0.20	ug/L	1	
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND	1.0	0.16	ug/L	1	
Tetrachloroethene		127-18-4	8260B	ND	1.0	0.13	ug/L	1	
Toluene		108-88-3	8260B	ND	1.0	0.33	ug/L	1	
1,1,1-Trichloroethane		71-55-6	8260B	ND	1.0	0.074	ug/L	1	
1,1,2-Trichloroethane		79-00-5	8260B	ND	1.0	0.21	ug/L	1	
Trichloroethene		79-01-6	8260B	ND	1.0	0.18	ug/L	1	
Trichlorofluoromethane		75-69-4	8260B	ND	1.0	0.30	ug/L	1	
1,2,3-Trichloropropane		96-18-4	8260B	ND	1.0	0.33	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-010

Description: UPSTREAM

Matrix: Aqueous

Date Sampled: 11/17/2010 1115

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0925	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		110	70-130					
Bromofluorobenzene		100	70-130					
Toluene-d8		107	70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

Client: Buxton Environmental

Laboratory ID: LK19068-010

Description: UPSTREAM

Matrix: Aqueous

Date Sampled: 11/17/2010 1115

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0915	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2105	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	<b>7440-39-3</b>	<b>6010C</b>	<b>0.040</b>		<b>0.025</b>	<b>0.0075</b>	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

## Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-011

Description: DOWNSTREAM

Matrix: Aqueous

Date Sampled: 11/17/2010 1330

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0946	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	8.4	J	20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.11	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-011

Description: DOWNSTREAM

Matrix: Aqueous

Date Sampled: 11/17/2010 1330

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 0946	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		110	70-130					
Bromofluorobenzene		97	70-130					
Toluene-d8		108	70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# RCRA Metals

Client: Buxton Environmental

Laboratory ID: LK19068-011

Description: DOWNSTREAM

Matrix: Aqueous

Date Sampled: 11/17/2010 1330

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	12/01/2010 0919	KJC	11/30/2010 1702	47154
1	3005A	6010C	1	11/22/2010 2109	CDF	11/22/2010 1300	47083

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Arsenic	7440-38-2	6010C	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010C	0.056		0.025	0.0075	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	0.00060	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	0.0021	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	0.0019	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Selenium	7782-49-2	6010C	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	0.00040	mg/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-012

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 11/17/2010

Date Received: 11/19/2010

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis Date 11/24/2010 1007	Analyst LBS	Prep Date	Batch 47272		
Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone		67-64-1	8260B	ND	20	6.7	ug/L	1	
Acrylonitrile		107-13-1	8260B	ND	20	1.2	ug/L	1	
Benzene		71-43-2	8260B	ND	1.0	0.13	ug/L	1	
Bromochloromethane		74-97-5	8260B	ND	1.0	0.16	ug/L	1	
Bromodichloromethane		75-27-4	8260B	ND	1.0	0.33	ug/L	1	
Bromoform		75-25-2	8260B	ND	1.0	0.66	ug/L	1	
Bromomethane (Methyl bromide)		74-83-9	8260B	ND	2.0	0.80	ug/L	1	
2-Butanone (MEK)		78-93-3	8260B	ND	10	2.0	ug/L	1	
Carbon disulfide		75-15-0	8260B	ND	1.0	0.097	ug/L	1	
Carbon tetrachloride		56-23-5	8260B	ND	1.0	0.14	ug/L	1	
Chlorobenzene		108-90-7	8260B	ND	1.0	0.33	ug/L	1	
Chloroethane		75-00-3	8260B	ND	2.0	0.47	ug/L	1	
Chloroform		67-66-3	8260B	ND	1.0	0.33	ug/L	1	
Chloromethane (Methyl chloride)		74-87-3	8260B	ND	1.0	0.35	ug/L	1	
1,2-Dibromo-3-chloropropane (DBCP)		96-12-8	8260B	ND	1.0	0.60	ug/L	1	
Dibromochloromethane		124-48-1	8260B	ND	1.0	0.33	ug/L	1	
1,2-Dibromoethane (EDB)		106-93-4	8260B	ND	1.0	0.30	ug/L	1	
Dibromomethane (Methylene bromide)		74-95-3	8260B	ND	1.0	0.35	ug/L	1	
trans-1,4-Dichloro-2-butene		110-57-6	8260B	ND	2.0	0.83	ug/L	1	
1,2-Dichlorobenzene		95-50-1	8260B	ND	1.0	0.33	ug/L	1	
1,4-Dichlorobenzene		106-46-7	8260B	ND	1.0	0.33	ug/L	1	
1,1-Dichloroethane		75-34-3	8260B	ND	1.0	0.13	ug/L	1	
1,2-Dichloroethane		107-06-2	8260B	ND	1.0	0.15	ug/L	1	
1,1-Dichloroethene		75-35-4	8260B	ND	1.0	0.16	ug/L	1	
cis-1,2-Dichloroethene		156-59-2	8260B	ND	1.0	0.12	ug/L	1	
trans-1,2-Dichloroethene		156-60-5	8260B	ND	1.0	0.21	ug/L	1	
1,2-Dichloropropane		78-87-5	8260B	ND	1.0	0.19	ug/L	1	
cis-1,3-Dichloropropene		10061-01-5	8260B	ND	1.0	0.092	ug/L	1	
trans-1,3-Dichloropropene		10061-02-6	8260B	ND	1.0	0.11	ug/L	1	
Ethylbenzene		100-41-4	8260B	ND	1.0	0.33	ug/L	1	
2-Hexanone		591-78-6	8260B	ND	10	0.27	ug/L	1	
Methyl iodide (Iodomethane)		74-88-4	8260B	ND	5.0	1.2	ug/L	1	
4-Methyl-2-pentanone		108-10-1	8260B	ND	10	0.31	ug/L	1	
Methylene chloride		75-09-2	8260B	ND	1.0	0.33	ug/L	1	
Styrene		100-42-5	8260B	ND	1.0	0.12	ug/L	1	
1,1,1,2-Tetrachloroethane		630-20-6	8260B	ND	1.0	0.20	ug/L	1	
1,1,2,2-Tetrachloroethane		79-34-5	8260B	ND	1.0	0.16	ug/L	1	
Tetrachloroethene		127-18-4	8260B	ND	1.0	0.13	ug/L	1	
Toluene		108-88-3	8260B	ND	1.0	0.33	ug/L	1	
1,1,1-Trichloroethane		71-55-6	8260B	ND	1.0	0.074	ug/L	1	
1,1,2-Trichloroethane		79-00-5	8260B	ND	1.0	0.21	ug/L	1	
Trichloroethene		79-01-6	8260B	ND	1.0	0.18	ug/L	1	
Trichlorofluoromethane		75-69-4	8260B	ND	1.0	0.30	ug/L	1	
1,2,3-Trichloropropane		96-18-4	8260B	ND	1.0	0.33	ug/L	1	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time

# Volatile Organic Compounds by GC/MS

Client: Buxton Environmental

Laboratory ID: LK19068-012

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 11/17/2010

Date Received: 11/19/2010

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/24/2010 1007	LBS		47272

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND	5.0	1.3	ug/L	1	
Vinyl chloride	75-01-4	8260B	ND	1.0	0.054	ug/L	1	
Xylenes (total)	1330-20-7	8260B	ND	1.0	0.33	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		110	70-130					
Bromofluorobenzene		100	70-130					
Toluene-d8		107	70-130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and  $\geq$  MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H = Out of holding time



## Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.

1106 Vantage Point Drive  
West Columbia, South Carolina 29169  
Telephone No. (803) 791-3700 Fax No. (803) 791-3701

Number 102971

# SHEALY ENVIRONMENTAL SERVICES, INC.

Telephone No. (803) 791-8700 Fax No. (803) 783-9111

DISTRIBUTION: White-tailed Kite occurs in Germany with Sanganeb.

DOCUMENTATION OF ANOTHER ECOLOGIST

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
Document Number: E-AD-016  
Revision Number: 6

Page 1 of 1  
Replaces Date: 09/22/06  
Effective Date: 05/29/07

## Sample Receipt Checklist (SRC)

Client: Huxton

Cooler Inspected by/date: MAR 14/91 Lot #: LK19068

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
1. Were custody seals present on the cooler?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
2. If custody seals were present, were they intact and unbroken?		
Cooler ID/temperature upon receipt / <u>1491</u> °C		
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
4. Is the commercial courier's packing slip attached to this form?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
5. Were proper custody procedures (relinquished/received) followed?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
6. Were sample IDs listed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
7. Was collection date & time listed?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
8. Were tests to be performed listed on the COC or was quote # provided?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
9. Did all samples arrive in the proper containers for each test?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
10. Did all container label information (ID, date, time) agree with COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
11. Did all containers arrive in good condition (unbroken, lids on, etc.)?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
12. Was adequate sample volume available? <u>yes</u> <u>no</u> <u>na</u>		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
14. Were any samples containers missing?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
15. Were there any excess samples not listed on COC?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
18. Were all cyanide and/or sulfide samples received at a pH >12?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
20. Were collection temperatures documented on the COC for NC samples?		
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) with the SR # (number) _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.		
Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.		

### **Corrective Action taken, if necessary:**

Was client notified: Yes  No

Did client respond: Yes  No

SESI employee: \_\_\_\_\_

Date of response: \_\_\_\_\_

Comments: \_\_\_\_\_

*APPENDIX B*  
*HISTORICAL GROUNDWATER ANALYTICAL RESULTS*

***MW-1***

***HISTORICAL GROUNDWATER ANALYTICAL RESULTS***  
***GASTON COUNTY - CLOSED CRAMERTON LANDFILL***  
***GASTON COUNTY, NORTH CAROLINA***

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS
<b><i>Appendix I VOC's</i></b>																													
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000	
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700	
<b><i>RCRA Metals</i></b>																													
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	
Barium	460	770	680	1,100	530	1,200	BDL	BDL	126	93	40	66	240	110	110	220	290	130	470	32	70	130	67	550	41	22	35	700	
Cadmium	BDL	BDL	BDL	1.1	2	5	<b>3</b>	2	BDL	BDL	BDL	0.71J	1.2J	BDL	BDL	<b>4.4</b>	BDL	BDL	0.16J	2									
Chromium	BDL	<b>18</b>	8	<b>26</b>	BDL	<b>21</b>	BDL	BDL	BDL	BDL	BDL	BDL	6.1	BDL	BDL	BDL	7.8	BDL	<b>16</b>	<b>16</b>	3.6J	3.7J	2.8J	<b>15</b>	BDL	BDL	BDL	10	
Lead	7	<b>24</b>	<b>28</b>	<b>21</b>	13	<b>23</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>22</b>	2.2J	5.3J	BDL	15	
Mercury	0.31	0.3	BDL	<b>1.6</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1		
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and &gt;=MDL

## MW-2

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS
<b>Appendix I VOC's</b>																													
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Chlorobenzene	BDL	5.1	5.2	BDL	7	8	7	6	7.8	6.8	6.2	8.4	7.5	2.2	4.2	5	3.4	4	4.1	BDL	4.9	5	5.4	NT	4.3	6.4	5.8	50	
Carbon Disulfide	BDL	35	BDL	BDL	BDL	BDL	BDL	8.5	BDL	BDL	BDL	BDL	BDL	BDL															
1,2-Dichlorobenzene	BDL	5.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL								
1,4-Dichlorobenzene	5	BDL	5.4	BDL	6	7	BDL	BDL	BDL	4.1	3.6	4.9	BDL	BDL	3.6	3.6	2.8	3.5	3.7	BDL	3.4	3.4	3.3	3.6	NT	0.41J	3.6	4.2	6
1,1-Dichloroethane	6.8	5	BDL	BDL	6	8	BDL	5	5.2	3.5	2.8	2.7	1.8	BDL	2.4	2.3	1.9	2	1.7	1.7	1.8	2	1.2	1.1	NT	0.85J	0.85J	1.3	6
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	7	BDL	BDL	BDL	3.4	2.7	3.2	2.8	2.5	3.6	3	2.2	3.6	2.8	3	2.8	2	2.2	2	NT	1.6	1.3	2.9	7
cis-1,2-Dichloroethene	11	8.8	BDL	6.6	7	11	BDL	7	5.6	3.9	3.2	3.2	2.9	1	1	3.7	3	BDL	2.8	2.3	2.6	2.3	2.2	2	NT	1.4	1.5	2.8	70
Styrene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	5	5	4.3	3.6	BDL	4.1	2.9	2.5	3.9	2	2.7	2.2	1.8	1.5	NT	1.3	1.2	0.8J	0.03		
<b>RCRA Metals</b>																													
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Barium	420	520	300	490	BDL	BDL	BDL	BDL	175	262	180	200	260	300	640	220	300	370	230	220	420	390	320	NT	260	210	320	700	
Cadmium	BDL	3	5	2	BDL	BDL	BDL	BDL	BDL	1.4	BDL	6.1	BDL	2.1	1.7J	2.8	1.1J	NT	2.4	BDL	1.1J	2							
Chromium	BDL	11	2	2.9	BDL	12	BDL	BDL	BDL	9	BDL	BDL	BDL	7.4	14	BDL	6.5	11	BDL	3.7J	14	10	6.2	NT	4.1	BDL	BDL	10	
Lead	7	32	18	19	BDL	23	BDL	BDL	BDL	7	5.7	BDL	7.1	14	34	4.8	9.9	16	BDL	2.2J	12	25B	19	NT	9.8	9J	12	15	
Mercury	BDL	0.4	BDL	BDL	BDL	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.11	0.12	BDL	0.11	0.21	0.22	0.16	NT	0.11	0.066J	0.27	1			
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL										

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and =&gt;MDL

NT = not tested, well was unable to be located due to heavy vegetative cover.

## MW-2D

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS		
<b>Appendix I VOC's</b>																								
Acetone	BDL	94	29.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	6,000									
Carbon Disulfide	BDL	BDL	BDL	2.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.73J	BDL	BDL	1	NT	2.1	0.1J	BDL	BDL	700	
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	3	
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26J	BDL	BDL	BDL	BDL	BDL	NT	BDL	0.34J	0.44J	
1,1-Dichloroethane	BDL	BDL	2.7	3.4	3.4	2.6	BDL	2.6	3.2	3	2.7	2.7	2.8	2.2	3.4	1.8	3.4	1.8	2.4	NT	2.1	2.3	3.1	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	1.1	1.5	BDL	1.1	1.3	1.1	1.5	1.3	1.7	1.2	1.4	1.1	1.8	1.1	1.8	NT	1.1	1.3	2.4	
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	1.7	1.7	BDL	1.8	2	1.9	BDL	1.8	1.9	1.6	2	1.3	2	1.3	2	NT	1.4	1.7	2.2	
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.23J	0.58BJ	BDL	BDL	BDL	BDL	NT	BDL	0.45J	BDL	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.38J	0.45J	0.28J	0.46J	0.28J	0.46J	NT	0.34J	0.29J	BDL	0.7
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	0.3J	0.22J	0.24J	0.22J	0.24J	NT	0.21J	0.21J	BDL	3
<b>RCRA Metals</b>																								
Arsenic	BDL	BDL	13	11	BDL	BDL	BDL	7.7	BDL	7.1	BDL	BDL	BDL	4.7J	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	10
Barium	BDL	BDL	86	96	38	49	43	55	29	26	BDL	BDL	27	14J	30	19J	15J	15J	NT	16	14J	9.7J	700	
Cadmium	2	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1	1	BDL	1.6	BDL	BDL	1.5J	BDL	BDL	NT	1.1	BDL	BDL	2	
Chromium	BDL	BDL	13	15	BDL	5.1	5.2	6.2	BDL	BDL	BDL	BDL	BDL	3.7J	BDL	BDL	BDL	BDL	BDL	NT	BDL	BDL	BDL	10
Lead	BDL	BDL	19	24	16	10	8.7	14	9.5	4.5	5.4	BDL	4.8	BDL	4.3	6.3B	4.2	4.2	NT	2.9	7.1J	BDL	15	
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.52BJ	BDL	BDL	NT	1.2	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and &gt;MDL

NT = not tested, well was unable to be located due to heavy vegetative cover.

rk:table:cramhistgw.mw2D

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS		
<b>Appendix I VOC's</b>																															
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000		
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1		
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700		
Chlorobenzene	BDL	8.4	BDL	9.7	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	BDL	3.5	BDL	3	BDL	3.4	BDL	BDL	50		
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6		
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	600		
1,2,3-Trichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.005		
<b>RCRA Metals</b>																															
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10		
Barium	230	<b>1,200</b>	280	<b>2,200</b>	BDL	<b>1,200</b>	BDL	BDL	BDL	263	177	140	120	190	130	240	170	570	260	100	140	110	180	120	230	65	NT	700			
Cadmium	BDL	BDL	BDL	BDL	BDL	1	<b>5</b>	2	1	BDL	<b>3</b>	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	1.2	1.4J	NT	1.1J	<b>2.1</b>	0.95J	1.4J	BDL	NT	2		
Chromium	BDL	<b>61</b>	9	<b>42</b>	BDL	<b>40</b>	BDL	BDL	BDL	BDL	<b>5</b>	BDL	<b>9</b>	BDL	<b>29</b>	8.3	6.6	2.4J	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10		
Lead	BDL	<b>26</b>	13	<b>18</b>	BDL	<b>21</b>	BDL	BDL	BDL	BDL	<b>6.4</b>	BDL	<b>6.1</b>	BDL	BDL	BDL	BDL	3.5	7.7J	4.6J	2.1J	NT	15								
Mercury	BDL	0.3	BDL	0.32	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1		
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20		
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20		

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and &gt;=MDL

NT = not tested, due to limited water

## MW-4

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS			
<b>Appendix I VOC's</b>																																
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
Carbon Disulfide	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL												
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	7	9	BDL	BDL	6.9	5.7	6.1	3.2	4.3	3.8	7	8.5	7	9	10	10	12	8.1	10	9.8	9.3	8.6	6.2	12	50		
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
1,4-Dichlorobenzene	11	12	6.6	13	21	9	7	19	14.3	15.8	8.4	11	11	13	13	11	13	11	13	11	14	9.7	14	12	10	5.9	6.5	8.8	6			
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL													
<b>RCRA Metals</b>																																
Barium	690	830	590	850	BDL	530	BDL	BDL	BDL	665	652	340	400	660	420	840	780	890	640	700	94	690	620	480	400	410	190	620	700			
Cadmium	11	1	BDL	BDL	1	3	8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.9	3	1.6	1.6	2	1.4J	0.82J	BDL	BDL	0.69J	0.64J	2
Chromium	11	35	31	26	16	13	BDL	BDL	BDL	6	9	5	BDL	8.7	BDL	BDL	29	12	BDL	37	2.6J	5.1	10	4.9J	BDL	3.3J	BDL	BDL	3.3J	BDL	10	
Lead	14	30	34	16	BDL	BDL	BDL	BDL	BDL	BDL	9.6	BDL	BDL	BDL	4	8	BDL	BDL	15	BDL	10B	9.1	7.1J	BDL	BDL	BDL	BDL	BDL	BDL	15		
Mercury	BDL	0.4	BDL	3.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			
Selenium	BDL	9	18	7.4	BDL	6.1	BDL	BDL	BDL	BDL																						
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL												

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

rk:table:cramhistgw.mw4

**MW-5**

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS				
<b>Appendix I VOC's</b>																															
Acetone	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	NT	NT	NT	BDL	NT			
Carbon Disulfide	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	NT	NT	NT	BDL	NT			
<b>RCRA Metals</b>																															
Arsenic	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NT	NT	NT	NT	NT	NT	BDL	NT			
Barium	220	NT	320	NT	BDL	NT	BDL	NT	NT	42	220	610	32	25	220	NT	<b>3,500</b>	32	<b>1,800</b>	NT	NT	NT	NT	NT	NT	9.7J	NT	6J	NT	10	
Cadmium	BDL	NT	BDL	NT	1	NT	<b>2</b>	NT	NT	NT	BDL	BDL	BDL	BDL	<b>1.8</b>	NT	<b>3.8</b>	BDL	<b>8.9</b>	NT	NT	NT	<b>14</b>	NT	BDL	NT	<b>1,000</b>	NT	13J	NT	700
Chromium	BDL	NT	<b>12</b>	NT	BDL	NT	BDL	NT	NT	BDL	5.7	<b>18</b>	BDL	BDL	BDL	BDL	<b>130</b>	BDL	<b>58</b>	NT	NT	NT	<b>38</b>	NT	BDL	NT	<b>2</b>	NT	BDL	NT	10
Lead	BDL	NT	<b>17</b>	NT	BDL	NT	BDL	NT	NT	BDL	BDL	7.3	BDL	BDL	BDL	BDL	<b>55</b>	BDL	<b>24</b>	NT	NT	NT	<b>45</b>	NT	BDL	NT	2.3J	NT	15		
Mercury	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	BDL	0.13	BDL	BDL	BDL	BDL	NT	0.36	0.13	0.17	NT	NT	NT	0.062J	NT	BDL	NT	1	NT	BDL	NT	
Selenium	BDL	NT	BDL	NT	BDL	NT	BDL	NT	NT	5.8	BDL	BDL	BDL	BDL	BDL	BDL	5.9	BDL	BDL	BDL	NT	NT	NT	NT	NT	NT	BDL	NT	BDL	NT	20

## Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

NT = not tested, well dry

NA = not applicable

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

NT = not tested, well dry

## MW-6

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS	
<b>Appendix I VOC's</b>																														
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Benzene	<b>8.2</b>	<b>7.5</b>	<b>8.9</b>	<b>7.9</b>	<b>10</b>	<b>13</b>	<b>9</b>	<b>8</b>	<b>5.1</b>	<b>5.9</b>	<b>5.3</b>	<b>6.5</b>	<b>6.5</b>	<b>5.2</b>	<b>6.7</b>	<b>7.1</b>	<b>5.6</b>	<b>6.8</b>	<b>6.7</b>	<b>6.6</b>	<b>6.2</b>	<b>6.2</b>	<b>4.7</b>	<b>7</b>	<b>6.2</b>	<b>5.8</b>	<b>7</b>	<b>1</b>		
Bromodichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
2-Butanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Carbon Disulfide	5.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,4-Dichlorobenzene	<b>12</b>	<b>13</b>	<b>16</b>	<b>14</b>	<b>19</b>	<b>21</b>	<b>17</b>	<b>15</b>	<b>15</b>	<b>13.7</b>	<b>13.5</b>	<b>15</b>	<b>17</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>13</b>	<b>18</b>	<b>20</b>	<b>17</b>	<b>19</b>	<b>18</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>19</b>	<b>20</b>	<b>27</b>	<b>6</b>	
1,1-Dichloroethane	<b>13</b>	<b>11</b>	<b>7.8</b>	<b>12</b>	<b>20</b>	<b>10</b>	<b>11</b>	<b>11</b>	<b>9.8</b>	<b>9</b>	<b>9.4</b>	<b>7.7</b>	<b>11</b>	<b>13</b>	<b>9.5</b>	<b>7.3</b>	<b>7.8</b>	<b>6.9</b>	<b>5.8</b>	<b>5.8</b>	<b>5.9</b>	<b>5.1</b>	<b>3.4</b>	<b>2.4</b>	<b>2.1</b>	<b>2.6</b>	<b>2.1</b>	<b>6</b>		
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
cis-1,2-Dichloroethene	<b>82</b>	<b>80</b>	<b>74</b>	<b>82</b>	<b>66</b>	<b>98</b>	<b>71</b>	<b>66</b>	<b>61.4</b>	<b>66.8</b>	<b>62</b>	<b>54</b>	<b>57</b>	<b>54</b>	<b>64</b>	<b>40</b>	<b>55</b>	<b>60</b>	<b>47</b>	<b>47</b>	<b>50</b>	<b>52</b>	<b>52</b>	<b>54</b>	<b>50</b>	<b>39</b>	<b>67</b>	<b>70</b>		
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
2-Hexanone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Trichloroethene	<b>12</b>	<b>9.8</b>	<b>11</b>	<b>7.1</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>1.2</b>	<b>1</b>	<b>0.92J</b>	<b>1.7</b>	<b>0.97J</b>	<b>2.3</b>	<b>1.2</b>	<b>0.66J</b>	<b>BDL</b>	<b>3</b>
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
<b>RCRA Metals</b>																														
Arsenic	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Barium	<b>810</b>	<b>1,500</b>	<b>1,200</b>	<b>1,800</b>	<b>1,600</b>	<b>950</b>	<b>800</b>	<b>660</b>	<b>845</b>	<b>745</b>	<b>720</b>	<b>1,200</b>	<b>1,100</b>	<b>1,000</b>	<b>910</b>	<b>1,400</b>	<b>1,300</b>	<b>1,200</b>	<b>1,200</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>	<b>1,100</b>			
Cadmium	BDL	<b>16</b>	<b>8</b>	<b>21</b>	<b>12</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>2.6</b>	<b>BDL</b>	<b>3</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>1.2J</b>	<b>1J</b>	<b>1.2J</b>	<b>BDL</b>	<b>0.73J</b>	<b>BDL</b>	<b>1.2J</b>	<b>2</b>		
Chromium	BDL	<b>15</b>	<b>4</b>	<b>7.8</b>	<b>28</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>8.1</b>	<b>6.6</b>	<b>21</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>3J</b>	<b>2.5J</b>	<b>BDL</b>	<b>2.2J</b>	<b>2.9J</b>	<b>BDL</b>	<b>BDL</b>	<b>10</b>		
Lead	7	<b>42</b>	<b>29</b>	<b>40</b>	<b>38</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>7.6</b>	<b>6.8</b>	<b>16</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>6.4J</b>	<b>6.4J</b>	<b>4.8J</b>	<b>5.8J</b>	<b>BDL</b>	<b>1.5</b>			
Mercury	<b>1.1</b>	<b>1.3</b>	<b>0.8</b>	<b>3.2</b>	<b>1.5</b>	<b>0.4</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>0.13</b>	<b>0.12</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>1</b>		
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>3.9J</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>20</b>		
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>0.76EJ</b>	<b>BDL</b>	<b>4J</b>	<b>1.5BJ</b>	<b>BDL</b>	<b>11</b>	<b>BDL</b>	<b>20</b>		

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

bold and shade denotes above NCGQS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and &gt;=MDL

## MW-6D

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
GASTON COUNTY - CLOSED CRAMERTON LANDFILL**

Date	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS			
<b>Appendix I VOC's</b>																									
Acetone	620	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.8J	BDL	6,000									
Benzene	<b>9</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>3</b>	<b>3.7</b>	<b>3.6</b>	<b>4.7</b>	<b>5</b>	<b>4.1</b>	<b>5.2</b>	<b>3.3</b>	<b>4.5</b>	<b>5.3</b>	<b>6.5</b>	<b>1</b>				
Carbon Disulfide	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5J	BDL	BDL	0.31J	BDL	1.6	BDL	BDL	700			
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.62J	BDL	0.76J	1	0.67J	1	1.1	1.5	50			
Chlorehane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.55J	BDL	BDL	1.2J	BDL	1.1J	1J	1.2J	3,000			
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.41J	BDL	0.48J	0.66J	0.41J	BDL	0.78J	0.99J	20			
1,4-Dichlorobenzene	<b>17</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4	3.7	3.5	4.8	<b>6.3</b>	<b>6.6</b>	<b>9.3</b>	<b>6.4</b>	<b>7.5</b>	<b>11</b>	<b>13</b>	6
1,1-Dichloroethane	<b>10</b>	BDL	<b>2.3</b>	<b>2.6</b>	<b>2.9</b>	<b>2.5</b>	BDL	<b>3</b>	<b>3.3</b>	<b>3</b>	<b>9.2</b>	<b>11</b>	<b>14</b>	<b>16</b>	<b>18</b>	<b>16</b>	<b>13</b>	<b>16</b>	<b>11</b>	<b>10</b>	<b>16</b>	<b>16</b>			
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>0.8J</b>	BDL	0.4									
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.42J	BDL	BDL	0.32J	BDL	BDL	BDL	BDL	BDL	0.97J		
cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.77J	BDL	BDL	0.3J	0.33J	BDL	0.32J	0.28J	BDL	100		
trans-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.69J	BDL	BDL	0.67J	0.69J	BDL	0.67J	0.68J	<b>1.1</b>	0.6		
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.94J	BDL	0.7									
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>2.3</b>	<b>2.4</b>	BDL	BDL	0.94J	BDL	0.7									
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4J	0.29J	BDL	600								
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	2.6	<b>3.1</b>	<b>4.4</b>	<b>3.6</b>	2.8	1.9	1	1.3	0.79J	BDL	3				
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>2.1</b>	<b>2.2</b>	<b>2.7</b>	<b>3.4</b>	<b>4.4</b>	<b>2.6</b>	<b>5.6</b>	<b>6</b>	<b>7.1</b>	0.03						
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.53J	0.59J	0.72J	0.81J	BDL	0.61J	BDL	BDL	500			
<b>RCRA Metals</b>																									
Barium	BDL	BDL	<b>58</b>	33	30	40	45	49	42	48	100	110	140	140	140	150	160	190	170	12J	250	700			
Cadmium	<b>3</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5	1	BDL	BDL	1.3J	1.6J	0.98J	0.74J	0.65J	BDL	BDL	2				
Chromium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	3J	2.4J	BDL	BDL	BDL	BDL	BDL	10			
Lead	<b>20</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.1	6.6J	3.2J	3.7J	BDL	1.5						
Mercury	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.072J	BDL	1									
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.1J	2.7BJ	BDL	BDL	BDL	BDL	BDL	BDL	20			
Silver	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4BJ	0.87J	1.1J	BDL	BDL	7.2	8.2	BDL	20			

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGPS

data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result &lt;PQL and &gt;MDL

rk:table:cramhistgw.mw6D

*MW-7*

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	NCGPS
<b>Appendix I VOC's</b>							
Carbon Disulfide	21	8.3	BDL	BDL	BDL	BDL	700
Chloroethane	BDL	BDL	BDL	BDL	11	BDL	2,800
1,4-Dichlorobenzene	BDL	BDL	5.5	BDL	6	7	75
1,1-Dichloroethane	28	24	26	9.6	26	41	700
1,2-Dichloroethane	<b>5</b>	<b>7.5</b>	BDL	<b>5.3</b>	BDL	12	0.38
cis-1,2-Dichloroethene	22	21	18	12	20	34	70
Methylene Chloride	BDL	BDL	BDL	<b>6.1</b>	BDL	BDL	5
<b>RCRA Metals</b>							
Barium	460	530	480	580	500	640	2,000
Cadmium	BDL	BDL	BDL	BDL	2	3	5
Chromium	BDL	3	BDL	BDL	BDL	13	50
Lead	BDL	9	8	BDL	BDL	BDL	15
Mercury	BDL	BDL	BDL	<b>3.4</b>	BDL	BDL	1.1

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGPS  
data presented in micrograms per liter (ug/l)

rk:table:cramhistgw.mw7

**MW-7A**

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS  
GASTON COUNTY - CLOSED CRAMERTON LANDFILL  
GASTON COUNTY, NORTH CAROLINA**

Date	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS	
<i>Appendix I VOC's</i>																							
Acetone	96	BDL	BDL	BDL	BDL	120	1,600	BDL	BDL	BDL	BDL	5.1J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.2J	13J	6,000	
Benzene		BDL	<b>5.4</b>	<b>2.8</b>	BDL	BDL	<b>7.5</b>	<b>7.7</b>	<b>7.6</b>	<b>9.1</b>	<b>6</b>	<b>7.6</b>	<b>6.9</b>	<b>6.5</b>	<b>6.7</b>	<b>4.7</b>	<b>1.3</b>	<b>2.1</b>	<b>6</b>	<b>6.7</b>	<b>5.1</b>	<b>7.9</b>	1
2-Butanone		BDL	BDL	BDL	BDL	140	2,000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4,000
Carbon Disulfide		BDL	BDL	BDL	BDL	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	1	BDL	1	BDL	1.6	BDL	BDL	700
Chloroethane		BDL	BDL	3.5	4	BDL	BDL	3.9	2.6	2	BDL	2.4	BDL	BDL	0.57J	BDL	1.2J	1.1J	BDL	0.96J	0.63J	0.64J	3,000
Chlorobenzene		BDL	BDL	BDL	BDL	2.3	3.5	BDL	4	6.6	3.9	4.4	4.1	4.7	4.6	3.2	1.4	1.6	3.9	4.4	3.5	5.1	50
1,2-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.36J	BDL	0.3J	BDL	BDL	BDL	BDL	BDL	BDL	20
1,4-Dichlorobenzene	6	<b>11</b>	<b>6.4</b>	4.1	<b>9.6</b>	<b>13</b>	<b>14</b>	<b>14</b>	<b>17</b>	<b>13</b>	<b>16</b>	<b>16</b>	<b>14</b>	<b>10</b>	<b>5.7</b>	<b>6.5</b>	<b>10</b>	<b>13</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>17</b>	6
1,1-Dichloroethane	<b>13</b>	5.2	<b>10.6</b>	<b>7.8</b>	3.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.24J	1.7	1.3	1.2	BDL	0.15J	0.21J	0.36J	0.36J	6
1,2-Dichloroethane	<b>6</b>	BDL	<b>2.9</b>	<b>2.5</b>	<b>1.3</b>	<b>2.7</b>	<b>4.5</b>	<b>1.6</b>	BDL	BDL	BDL	BDL	BDL	0.68J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
cis-1,2-Dichloroethene	9	BDL	7.6	6.1	3.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.45J	1.6	1.6	BDL	BDL	0.53J	0.31J	0.9J	0.9J	70
Ethylbenzene	15	7.3	BDL	BDL	13	22	48	31	32	8	BDL	BDL	BDL	BDL	BDL	0.34J	BDL	BDL	BDL	BDL	1	BDL	600
2-Hexanone		BDL	BDL	BDL	BDL	BDL	BDL	85	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	280
4-Methyl-2-pentanone		BDL	BDL	BDL	BDL	BDL	15	<b>690</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.5J	2.5J	560
Toluene		BDL	BDL	BDL	BDL	1.4	2.3	41	3.2	1.8	1	BDL	BDL	BDL	0.65J	0.71J	0.33J	0.5J	BDL	0.43J	0.56J	BDL	600
Vinyl Chloride		BDL	BDL	BDL	BDL	<b>2.1</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.29J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.030
Xylenes	23	BDL	BDL	BDL	23	11	110	44	46	8.6	8.4	6.1	6.9	2.1	0.42J	BDL	0.77J	BDL	3.9	BDL	4.9	500	
<i>RCRA Metals</i>																							
Arsenic	10	BDL	BDL	BDL	BDL	BDL	<b>14</b>	BDL	BDL	5	BDL	BDL	BDL	<b>16</b>	<b>32</b>	<b>31</b>	10	BDL	5.9J	BDL	10		
Barium		BDL	BDL	312	252	300	410	440	420	390	390	420	420	420	420	430	480	460	460	580	430	700	
Cadmium		<b>3</b>	BDL	BDL	<b>7</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.2J	0.85J	BDL	<b>3.2</b>	<b>0.97J</b>	BDL	BDL	2		
Chromium		<b>19</b>	BDL	BDL	BDL	BDL	BDL	BDL	6.7	BDL	BDL	BDL	BDL	3.5J	2.8J	BDL	BDL	3.5J	BDL	BDL	BDL	10	
Lead		<b>22</b>	BDL	BDL	BDL	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.2	BDL	BDL	9.7	11	3.8J	8.1J	BDL	15	
Mercury		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.055J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	
Selenium		BDL	BDL	BDL	BDL	6	9.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.8	BDL	BDL	BDL	BDL	BDL	20
Silver		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.4BJ	BDL	BDL	1.6BJ	BDL	7.9	BDL	BDL	BDL	20

Notes:

Groundwater samples collected on above listed dates and analyzed for Appendix I VOC's and RCRA metals.

BDL = below detection limit

NCGPS = North Carolina Groundwater Protection Standard

VOC's = volatile organic compounds

bold and shade denotes above NCGPS  
data presented in micrograms per liter (ug/l)

B = detected in method blank

J = estimated result <PQL and >=MDL

**HISTORICAL GROUNDWATER ANALYTICAL RESULTS**  
**GASTON COUNTY - CLOSED CRAMERTON LANDFILL**  
**GASTON COUNTY, NORTH CAROLINA**

Date	4/97	9/97	4/98	9/98	4/99	9/99	5/00	9/00	5/01	12/01	7/02	12/02	5/03	11/03	5/04	11/04	4/05	11/05	5/06	11/06	6/07	11/07	6/08	11/08	6/09	11/09	4/10	11/10	NCGPS			
<b>Appendix I VOC's</b>																																
Acetone	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6,000				
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6				
Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.7				
<b>RCRA Metals</b>																																
Barium	180	410	520	720	BDL	BDL	BDL	BDL	BDL	128	282	58	150	130	660	490	220	250	110	220	360	250	110	220	46	47	34	42	43	37	39	700
Cadmium	BDL	BDL	20	BDL	1	2	2	5	BDL	BDL	BDL	BDL	<b>34</b>	BDL	BDL	1.8	BDL	BDL	0.81J	1.1J	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2		
Chromium	BDL	<b>19</b>	<b>16</b>	<b>26</b>	BDL	<b>14</b>	BDL	<b>22</b>	BDL	<b>6</b>	<b>21</b>	BDL	BDL	<b>5.6</b>	<b>51</b>	<b>16</b>	<b>7.3</b>	<b>21</b>	<b>12</b>	<b>6.2</b>	<b>16</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10		
Lead	7	13	16	19	BDL	BDL	BDL	12	BDL	BDL	4	BDL	BDL	11	11	3.7	3.1	BDL	BDL	2.8J	BDL	BDL	3	8J	2.3J	2.3J	9.7J	BDL	15			
Mercury	BDL	BDL	BDL	<b>2</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1				
Selenium	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20				

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rk:table:cramhistgw.mw8